Bids Close		See Eng. News-Record
Apr. 5	Pass, Weir, etc. — Wheeling, W. Va.	Mar. 20
	Adv. Mar. 13 to 27.	
Apr. 7	Timber Wharf — Spec. 3801 —Chelsea, Mass.	Mar. 20
Apr. 7	Roads — Spec. 3796 — Chelsea, Mass.	Mar. 20
Apr. 7	Electrical equipment—Spec. 3785—Pensacola, Fla.	Mar. 27
Apr. 8	Dredging — New London, Conn.	Mar. 27
	Adv. Mar. 20 and 27.	
Apr. 9	Radial Brick Chimney—Wheeling, W. Va.	Mar. 27
Apr. 14	Cranes — Spec. 3477 — Boston, Mass.	Mar. 27
Apr. 15	Pumps, etc.—Omaha, Neb.	Mar. 6
	Adv. Feb. 27 and Mar. 6	
Apr. 15	Road Work—Washington, D. C.	Mar. 27
Apr. 16	Coal—Jacksonville, Fla.	Mar. 27
	Adv. Mar. 2 0and 27.	
Apr. 16	Removing wreck—Buffalo, N. Y.	Mar. 27
	Adv. Mar. 20 and 27.	
Apr. 17	Valves Jacks—Wheeling, W. Va.	Mar. 27
	Adv. Mar. 20 and 27.	
Apr. 18	Post Office—Mt. Pleasant, Mich.	Mar. 13
Apr. 21	Post Office — Rhinelander, Wis.	Mar. 13
Apr. 23	Post Office—Gilmer, Tex.	Mar. 13
Apr. 23	Earth Work—St. Louis, Mo.	Mar. 27

MISCELLANEOUS

Mar. 27	Rebuilding Crib Bulkhead —New York, N. Y.	Mar. 20
Mar. 31	Boardwalk—Seaside, N. J.	Mar. 13
Mar. 31	Road Roller, Newark N. J.	Mar. 27
Mar. 31	Paving Material—St. Paul, Minn.	Mar. 27
Mar. 31	Road Oil—St. Paul, Minn.	Mar. 27
Apr. 2	Paving Material, Springfield, Ill.	Mar. 27
Apr. 3	Miscellaneous Supplies, Long Island City, N. Y.	Mar. 27
Apr. 3	Miscellaneous Supplies, New York, N. Y.	Mar. 27
Apr. 4	Miscellaneous Supplies, New York, N. Y.	Mar. 27
Apr. 8	Road Materials—Columbus, O.	Mar. 20
	Adv. Mar. 13 and 20.	

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Rochester—City having plans prepared for 36 in. water main under Genessee River, south of Clarissa St. bridge, opposite McLean St. A. C. Poole, city engr.

Pa., Dubois—Water Comrs. approved plans for addition to waterworks system. About $100,000.

Ky., Paducah—City plans to issue $500,000 bonds to build waterworks system. L. A. Washington, city engr.

O., Toledo—Lucas Co. receives bids about May laying 7720 ft. 6 in. c.i. pipe. About $15,000. L. A. Boulay, co. engr.

O., Wauseon—City plans election about May 1, to vote on $170,000 bonds to build pipe lines and 80,000,000 gal. capacity impounding reservoir, also filtration plant, brick, steel and rein.-con. W. J. Sherman, 613 Nasby Bldg., Toledo, engr.

Mich., Bay City—City had revised plans and estimates prepared for improving waterworks system. About $1,000,000 bonds will be voted for project. R. C. Dawson, supt. waterworks. Burns & McDonnell, 400 Interstate Bldg., Kansas City, Mo., engrs.

Ia., Clarinda—City soon receives bids extending and improving waterworks system. About $75,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 2.

Kan., Lyons—City plans election in April to vote on $30,000 bonds to improve waterworks system. Noted Mar. 6.

Kan., Sharon Springs—See "Industrial Works."

S. D., Mitchell—City soon lets contract for improving waterworks system. About $100,000. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., consult. engrs. Noted Jan. 2.

N. D., Lakota—City soon lets contract building 2 concrete wells, 2 motor driven pumps, 2 pump houses, 1 electric transmission line, one 50,000 gal. steel tank on 100 ft. tower, 1 heating system for elevated tank, 28 hydrants, two 3 in. motors, also laying 26,201 ft. 6-8 in. c.i. pipe. E. A. Hughes, city aud.

Mont., Roundup—City having plans prepared for 500,000 gal. rein.-con. reservoir. F. Quinnel, city engr.

Tex., Eastland—City voted $100,000 bonds to build waterworks and sewerage systems. Noted Aug. 22.

Tex., Palestine—City plans to expend $10,000 to build waterworks. J. W. Tommons, city engr. Noted Nov. 21.

Okla., Cushing—City rejected bids improving waterworks system. About $150,000. Noted Dec. 5.

Okla., Newkirk—City plans election in May to vote on $80,000 bonds to extend waterworks system. H. G. Olmstead, city engr.

Okla., Wewoka—City rejected bids building extension to water-works system. Noted Mar. 6.

Okla., Woodward—City defeated $30,000 bonds for equipping water and light plant. Noted Feb. 6.

Wash., Bremerton—City receives bids about June building 7.5 mi. 20 in. wood pipe line from Wild Cat Lake to city line; also building equalizing basin, trestles, etc., and dredging portion of lake. About $120,000. Work involves 500 cu.yd. concrete. F. S. Hathaway, city engr.

Cal., Inglewood—City plans election soon to vote on $217,000 bonds to build waterworks system. Plans include wells, pumps, stand pipe, reservoir and distributing system, or purchase of pumping plant and distributing system of Inglewood Water Co. and extensions and improvements to same. Olmsted & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, engrs. Noted Dec. 5.

Cal., Trona—Amer. Trona Corp. applied to State Water Comn. to appropriate water for domestic, mining and milling purposes. Plans include building tanks, reservoirs and pipe line 10¼ mi. long. About $14,500.

Cal., Whittier—City plans election to vote on bonds to improve waterworks system. C. O. Trueblood, city clk.

Ont., Port Dalhousie—Village will retain engineer to make surveys and prepare plans for waterworks system.

BIDS DESIRED

N. Y., New York—Until Apr. 1, by N. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., completing abandoned contract for furnishing, delivering and laying 12 in. water main across East River from 140th St. to North Brother Island, and hauling and laying water mains in East 140th St. and on North Brother Island, Bronx Boro.

Pa., Bakerton (Elmora P. O.) — Until Mar. 31, by Bakerton Water Co., Bakerton, building complete storage water reservoir, with all accessories, consisting of 17,000 cu.yd. embankment and 1200 cu.yd. concrete masonry, 1¼ mi. east of here; also 6600 lin.ft. 8 in. c. i. pipe water line from gate house of dam to Reed St., in Bakerton, with specials, gates, hydrants, etc. J. M. Bradley, pres.; advertised in this issue.

O., Akron — Apr. 18, by H. S. Morse, dir. pub serv., Delaware Bldg., constructing 48 in. pipe line between Kent and distributing reservoir here. Work involves (1) furnishing 4400 tons and 170 tons 36 in. c.i. pipe and 230 tons special castings; (2) laying 2.3 mi. 48 in. and 0.1 mi. 36 in. c.i. pipe; (3) 2.3 mi. 48 in. steel pipe and 0.1 mi. 36 in. c.i. pipe; advertised in this issue.

O., Freeport—Until Apr. 15, by Village, rebuilding water system, involving 3510 ft. 4-6 in. c.i. and 1250 ft. 2½ in. w.i. pipe. About $15,000. W. J. Sherman, 613 Nasby Bldg., Toledo, engr.

Neb., Scottsbluff—Until Apr. 1, by city, improving waterworks system, involving 166 lin.ft. 14 in. and 786 lin.ft. 12 in., class "C" c.i. water mains, 4000 lb. c.i. specials, one 14 in. and two 12 in. double gate valves.

Mo., Kansas City—Until Apr. 9, by J. R. Samuel, city purch. agt., building and completing 15,000,000 gal. storage basin at Wabash and St. John Aves. W. C. Goodwin, ch. engr., advertised in this issue.

Okla., Duncan—Until Apr. 1, by city, improving waterworks system. Work involves building power plant and 4 mi. 4-6 in. mains. Former bids rejected. Benham Eng. Co., 1300 Colcord Bldg., Oklahoma, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Boston—Dept. Pub. Wks. let contract to C. Russo, Hemlock St., West Roxbury, $4160, laying water mains in Baker, Catherine, Florence, Robin, Swallow and Middleton Sts., Whipple and Glenwood Aves., Bellvista Rd. and Larmartine Ct., Hyde Park Twp., involving 2720 ft. 6-12 in. c.i. pipe, 125 cu.yd. concrete, 150 cu.yd. earth excav., also in Dudley St., Dorchester Twp., involving 2900 ft. 4-16 in. c.i. pipe, 120 cu.yd. earth and 10 cu.yd. rock excav., $1970.

Conn. Hartford—Comrs. Water Bd. received bids building slow sand filtration plant, from Foundation Co., 233 Bway., New York City, $627,508; F. T. Ley & Co., 495 Main St., Springfield, Mass., $632,620; H. E. Fox Constr. Co., Inc., 81 East 125th St., New York City, $668,956. Noted Mar. 6.

★Conn., Waterbury—See "Miscellaneous."

★Mo., Carrollton—Water, Light & Transit Co. let contract building filtration plant to E. L. Harper, Kansas City. Work involves building two 70 x 90 ft. settling basins, 9 ft. deep with 380,000 gal. capacity each, also two 40 x 40 ft. smaller basins with 45,000 gal. capacity each and 2 clear water wells. Noted Feb. 20.

Sewers

PROPOSED WORK

Mass., Fairhaven—Town receives bids about April building sewers in various streets. About $10,000. C. E. Swift, town clk.

N. Y., Utica—J. Kemper, city engr., prepared plans for sewerage system and sewage disposal plant. Project involves 8-12 in. sewers in North Genesee St., Riverside Dr., Trenton, Walker and Herkimer Rds. and Auert Ave.; also 1860 ft., 15-18 in. main sewer from Genessee St. across private right-of-way to disposal plant at north side of barge canal, main tank will be 28 x 42 ft. with sludge tanks at either end.

N. J., Lyndhurst—Town Council plans to build surface-water sewer in Valleybrook Ave. About $20,000.

Fla., Pensacola—City plans to sell $75,000 bonds to install sanitary sewerage system. Total cost, $95,000; about $20,000 now available.

O., Silver Lake (Bellefontaine P. O.)—City receives bids in April building sewage disposal plant. About $26,000. C. W. Courtney, Leader News Bldg., Cleveland, engr. Noted Mar. 6.

O., Toledo—Comrs. Lucas Co. receive bids about May, building Sanitary Sewer No. 34, in Overland Heights involving 6300 ft. 8 in. vitr. pipe. About $15,000. L. A. Boulay, co. engr.

O., Toledo—City receives bids about May 1, building Creek Sewer, 10 mi. long. Work involves 6 mi. 48-72 in. sewer pipe. Bids will be received on all types of construction. H. C. McClure, 229 Valentine Bldg., Toledo, engr.

Mich., Oakwood (Oxford P. O.)—Village election Apr. 1, to vote on $75,000 bonds to build 15 in. vitr. sewers in various streets. H. L. Russell, 505 Moffat Bldg., Detroit, engr.

Kan., Douglas—City having plans prepared building 5280 ft. 12 in., 3000 ft. 10 in. and 26,800 ft. 8 in. sewers in various streets. E. L. Pratt, city clk. F. E. Devlin, engr.

S. D., Aberdeen—City had preliminary plans prepared building storm sewers. Bonds for $350,000 will be voted for work. F. Le Cocq, city engr. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., consult. engrs.

Sewers (Continued)

N. D., Lakota—City soon lets contract building septic tank, 24,990 ft. 8-12 in. sewer pipes and 54 manholes, etc., in Sewer Impvt. Dist. No. 1. E. F. Hughes, aud.

Mont., Billings—City plans to build sanitary sewers to Suburban Homes and Yellowstone additions. E. M. Sneckenberger, city engr.

Mont., Great Falls—City having estimates made and plans prepared by L. B. Evenson, city engr., building sanitary sewer in 4th Alley south, from 16th to 26th Sts.

Mo., St. Joseph—City plans election about May 1, to vote on $700,000 bonds to extend main sewers in various streets. H. Johnson, city engr.

Tex., Denton—City will issue $10,000 bonds to extend sewers in various streets. Noted Feb. 20.

Tex., Eastland—See "Water-Works."

Tex., Ranger—City retained H. E. Elrod Co., engrs., Interurban Bldg., Dallas, to prepare plans for sewers, paving, and other engineering works necessary to improve city. About $750,000.

Ont., Newmarket—City plans to build about 30,000 ft. sewers. Cost $150,000. James, Loudon & Hertzberg, Ltd., Excelsior Life Bldg., Toronto, engrs.

Ont., Strathroy—City plans to build sewers in various streets. About $15,000. James, Loudon & Herzberg, Excelsior Life Bldg., Toronto, engrs.

BIDS DESIRED

R. I., Pawtucket—Until Apr. 17, by Comr. Pub. Wks., building 1200 ft. segmental block sewer, 33 x 45 ft. diam.; 160 ft. 20 in. brick sewers and 2000 ft. 10-24 in. sewer; also for 1840 ft. 60 in., 913 ft. 50 in. and 620 ft. 44 in. brick sewers, lock joint pipe, segmental block or monolithic concrete in excavations from 13-25 ft. I. Gill, city engr.

N. Y., Albany—See "Streets and Roads."

N. Y., Brooklyn—Until Apr. 2, by E. Riegelmann, boro. pres., building sewer in Remsen Ave. from Ralph Ave. to and across East New York Ave. and Utica Ave. from East New York Ave. to Carroll St.

N. J., Nutley (Newark P. O.)—Until Apr. 1, by S. Blum, town clk., furnishing labor and material building vitr. pipe sanitary sewer in Centre St. from Washington Ave. to Franklin Ave. Work involves 8572 ft. trench, various depths, 8200 ft. 6 in. vitr. pipe and 2 manholes; advertised in this issue.

N. J., Trenton—Until Apr. 4, by city, laying 3000 ft. 8 in. sewer pipe in Commercial Ave. About $10,000. A. C. Gregory, 907 Bellevue Ave., engr.

O., Cleveland—City is receiving bids building vitr. pipe sewers in Gifford Ave. from West 45th to West 53rd St., involving 1890 ft. 12 in. pipe; Hood Ave., from West 21st to West 28th Sts., 1460 ft. 12, 15 and 18 in. pipe; West 47th St. from Clark to Oakley Aves., 810 ft. 12 and 15 in. pipe; West 28th St., from Montclair to Natchez Ave., 790 ft. 12 in. pipe; West 18th St. from Forestdale to Willowdale Aves., 330 ft. 12 in. pipe; Nine Mile Creek from East 152nd St., west, 30 ft. 12 in. pipe, 430 cu.yd. Class "A" concrete, 37,000 lb. reinforcing steel, 460 cu.yd. excav., and 3800 sq.ft. brick paving; Nottingham Rd. from St. Clair Ave. to New York Central and St. Louis Ry., Plan "A," 390 ft. 12, 18 and 20 in. pipe; West 32nd St. from Barber Ave. to west end, 260 ft. 12 and 15 in. pipe; Joy Court from West 30th to West 32nd St., 330 ft. 12 in. pipe; West 21st. St. from Saratoga Ave. to city limits, 420 ft. 12 and 15 in. pipe. R. Hoffman, city engr.

O., Cleveland—Until Apr. 22, by Comr. Purchases and Supplies, 229 City Hall Bldg., building sewage treatment works at the westerly site. Work includes building grit chambers, 2-story settling tanks, outfall conduits, etc., and involves 15,000 lin.ft. wooden piling, 30,000 cu.yd. excav., 15,000 cu.yd. concrete, 850 tons steel reinforcement, 60 tons c. i. piping, etc. E. Shattuck, comr.

Ia., Mason City—Until Apr. 2, by city, building 2800 lin.ft. 10 and 4450 lin.ft. 12 in. sanitary sewers. J. H. McEwen, city clk.

Minn., St. Paul—Until Mar. 31, by H. W. Austin, purchasing agt., City Hall, furnishing labor and material building Portland Ave. outfall sewer from Mississippi River to point 808 ft. east; sewer in Somerville Ave. from Mississippi River to point 1420 ft. northeasterly.

Cal., San Bernardino—Until Apr. 4, by J. H. Osborn, city clk., building 8 in. vitr. pipe sewer, 2 brick manholes, flush tank and 25 connecting sewers in 2nd St. between E and Mt. Vernon Aves. C. E. Johnson, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received bids Mar. 24, (1) building sewers in Grand St., (2) Ralph St., (3) Tompkins St., (4) 91st St., (5) Atlantic Ave., (6) Syossett St., (7) temporary drain in Genessee St., from A. Paino, 2622 Bath Ave., Brooklyn, (1) $18,562, (3) $3980; C. Petracco, Brooklyn, (1) $190,480, (2) type A, $10,869; type B, $13,298, (4) $34,364; T. Welch, (2) type A, $11,401; type B, $12,626 (3) $2498; Murphy Bros., (4) $29,571, (6) $3178; Ajex Drainage Contg. Co., 60 Herkimer St., Brooklyn, (5) $74,861; Roggi & Locke, (5) $89,521; J. H. Johnson, (6) $3370; Savero & Britton, $94,-084; U. S. Drainage & Irrigation Co., $115,-850. Noted Mar. 20.

N. J., Trenton — City received bids building sewer in Riverside Heights from Log Basin to Brookville from A. De Ludia, 52 Bayard St., $18,871; G. Boscorelli, Trenton, $19,399; R. F. Reilly, Easton, Pa., $20,754. Work involves 5660 ft. 8 in., 2230 ft. 6 in., 960 ft. 10 in. vitr. pipe, 130 ft. 6 in. c.i. force main, 180 ft. 6 in. wye branch, 2 pumps, house connections and 22 manholes.

★**N. C., Durham**—City let contract building sanitary sewers in Main St. and Alston Ave., to S. N. Slade, $33,907; Neuse River outfall sewer, to R. G. Lassiter, Oxford, $21,326. Both vitr. pipe. Noted Feb. 27.

★**Fla., Jacksonville**—City rescinded contract let to Flynn & Co., building sewers, and relet same, to Bryan & Co., Phelps St., $52,394.

★**O., Cleveland**—City let contracts building sewers in (a) St. Mark Ave., (b) Linndale Ave., (c) Mulberry Ave., (d) Winslow Ave., (e) West 110th St., (f) West 117th St., (g) Washington Ave., (h) Fortune Ave., (i) East 143rd St., (j) East 24th St., (k) Governor Ave., to N. Iafornaro, 3218 Murray Hill Rd., (a) $3183, (h) $3157; Amata Constr. Co., 343 Arcade, (b) $3116; G. Sam, 2418 Central Ave., (c) $1127, (d) $1582; Haddad & Mahl, Schofield Bldg., (e) $18,-000; A. Marra, 608 Park Bldg., (f) $14,984; Joseph & Kalihl, 1200 Bolivar Rd., (g) $2208; Gallagher Burke Co., 1339 Irene Ave., (i) $45,890; Gaune Constr. Co., 10510 Euclid Ave., (j) $15,049; H. Hahn, 2973 East 78th St., (h) $2226. Noted Mar. 20.

★**Mich., Detroit**—Bd. Pub. Wks. let contract building 2859 ft. Erwin Ave. Pub. Sewer in Burns, Peter Hunt and Erwin Aves. from Harper to Edgewood Aves., to R. D. Baker, 1454 Penobscot Bldg., $47,-711; 7956 ft. Dexter Blvd. Pub. Sewer from Joy Rd. to Davidson Ave., to W. Porath, 1410 West Grand Blvd., $136,539. Noted Mar. 20.

★**Ia., Davenport**—City let contract building 8745 ft. sewer in Monroe St. from Spring to Judson Sts., Rose's, Martzahn's and Honersite Additions, to J. Bredow, 822 Gaines St., $12,655.

★**Ia., Tama**—City let contract to Dearborn Constr. Co., Waterloo Savings Bldg., Waterloo, for 600 ft. 15 in. pipe, at $1.15 per ft.; 10,900 ft. 12 in., $0.97 per ft., and 3185 ft. 10 in., $0.89 per ft.

Bridges

PROPOSED WORK

N. Y., Watertown—City receives bids in May building lower deck of Court St. bridge over Black River between Jail Hill and Leray St. About $150,000. E. W. Sayles, city engr. Noted Jan. 9.

N. J., Newark—See "Streets & Roads."

Ga., Albany—See "Streets and Roads."

Fla., Ft. Pierce—See "Streets and Roads."

Ala., Montgomery — See "Streets and Roads."

O., Columbus—See "Streets and Roads."

O., Columbus—See "Streets and Roads" under Ohio.

Ia., Des Moines—Comrs. Polk Co. will let contract about Apr. 1 building concrete bridges. About $50,000. C. Coyke, Jail, co. engr.

Kan., Hutchinson—City election Apr. 1 to vote on $50,000 bonds to build several bridges. E. Metz., city clk.

Mo., Jefferson City—Little River Diversion of St. Francis D.D., Cole Co., plans to build 14 bridges. About $500,000. A. Speer, Bollinger, and G. Houck, Cape Girardeau, representatives. Noted Jan. 23.

Tex., Livingston—Comrs. Polk Co. plan election in April to vote on $800,000 bonds to build bridge across Trinity River at Swartout; also build 42 mi. hard surface road, gravel or crushed rock.

Utah, Provo—See "Streets and Roads."

Utah, Salt Lake City—Salt Lake Co. plans to build five 150 ft., rein.-con. bridges over Jordan River. Cost between $10,000 and $15,000 each. G. G. Bywater, Co. surv.

Wash., Walla Walla—Walla Walla Co. election Apr. 8, to vote on $125,000 bonds to build concrete bridge over Snake River between Burbank and Pasco. Total cost, $250,000. Franklin Co. will bear other half of cost.

Ore., The Dalles—City soon lets contract building rein.-con. viaduct 100 ft. long, 20 ft. wide, with 3 bents, middle 36 ft., two ends 32 ft. Work involves 2760 cu.yd. embankment in approaches. T. A. Garrow, Northwestern Bank Bldg., Portland, consult. engr.

Cal., Los Angeles—See "Bridges."

Que., North Temiskaming—Dept. Pub. Wks., Ottawa, soon receives bids building superstructure and repairing substructure of bridge here. About $70,000. D. Laphew, c/o Dept. Pub. Wks., engr.

Ont., Bayham—Elgin Co. soon lets contract building 2 rein.-con. highway bridges, 40 ft. and 60 ft. long respectively. About $15,000. J. A. Bell & Sons, St. Thomas, engrs.

Ont., Ottawa—Dept. Pub. Highways, Toronto, receives bids in summer building 4 concrete arch bridges and 8 steel bridges. G. Hogarth, c/o Dept. Pub. Wks., engr.

BIDS DESIRED

O., Toledo—Until Apr. 22, by Comrs. Lucas Co. building 15 bridges, involving 740 cu.yd. rein.-con., 1750 cu.yd concrete, 36 tons steel. About $35,967. Plans include 66 ft. steel truss bridge, cost $9,000, several beam and grinder spans, $2,800, etc. C. L. Rood, co. engr.

Ill., Ottawa—Until Apr. 4, by G. Farnsworth, supt. highways, La Salle Co., building four 55 ft. spans rein.-con girder or arch bridge on Sheridan St., involving 1026 cu.yd concrete for girder and 1099 cu.yd. concrete for arch, 105,930 lbs. steel for girder and 40,260 lbs. steel for arch. About $23,450 and $21,050 respectively.

N. D., Hillsboro—Until Apr. 8, by Comrs. Traill Co., building new bridges and repairing old ones during 1919. G. D. Olson, co. aud.

Mo., Kansas City—Until Apr. 1, by Bd. Park Comrs., building rein.-con. bridge carrying Cliff Drive over Chestnut Ave. Trafficway, involving 100,000 lb. reinforcing metal, 1850 cu.yd. concrete in abutments, 846 cu.yd. concrete in arch, 30 cu. yd. concrete in stairway, 433 lin.ft. handrail, 3700 sq.ft. surface finish, 258 sq.yd. stone veneer. R. W. Waddell, acting city engr.

Reinforced Concrete

PROPOSED WORK

Ga., Albany—See "Streets & Roads."

O., Dayton—See "Buildings."

Ill., Chicago—See "Buildings."

Ia., Davenport—See "Industrial Works."

Wash., Walla Walla—See "Bridges."

Ore., The Dalles—See "Bridges."

Streets and Roads

PROPOSED WORK

Mass., Falmouth—City plans to rebuild Grand Ave., macadam or similar material. About $40,000. W. H. Hewins, town clk.

Streets and Roads (Continued)

Mass., Mattapoisett—Town plans to expend $15,000 to macadamize roads. W. E. Bowman, chn. selectmen.

Rhode Island—State Bd. Pub. Rds., Providence, plans to build 4 mi. Post Rd. from Westerly to Narragansett Pier, 18 ft. wide, bituminous. About $70,000. J. W. Patterson, state engr.

R. I., North Scituate—Water Supply Bd., Providence, having plans prepared by F. E. Winsor, engr. water supply bd., Providence, building 8000 ft. road from here to Plainfield Pike. About $30,000.

Conn., Milford—City Council plans to expend $250,000 to pave various streets. M. J. Cheney, chn.

N. Y., Auburn—City having plans prepared by T. Bergan, city engr., paving Swift and Fort Sts.; also Orchard St. from James to Division Sts., and Fulton St. from Franklin St. to Standart Ave.; repaving Clark St. from State St. to Lehigh Valley R.R. crossing and State St. from bridge at New York Central crossing to Seymour St.

N. Y., Geneseo—Village plans to appropriate $16,000 to improve roadway of Center St., between Mill and Main Sts., tarvia bound macadam, cement gutters, curbing, etc. M. De Munn, street supt.

N. Y., Schenectady—City having plans prepared by L. B. Sebring, city engr., extending Brandywine Ave. across Cotton Factory Hollow to Michigan Ave.

N. J., East Orange—City plans to curb, gutter and lay Telford pavement on Everett St., also Edgewood and Crescent Rds.

N. J., Newark—Bd. Freeholders Essex Co. soon lets contract resurfacing with 2 in. Warrenite, Watchung Ave. from Upper Mt. Ave., Montclair, through Glen Ridge to East Passaic Ave., Bloomfield. About $85,000. F. A. Reimer, co. engr.

N. J., Newark—Bd. Freeholders Essex Co. plans to pave Laurel Ave. from Eagle Rock Ave., West Orange, to Mt. Pleasant Ave., Livingston. About $80,000. Project includes building 2 bridges.

N. J., North Bergen—Town plans to improve Bway from 27th St. to North Hudson Park. About $40,000. T. A. Harmon, Weehawken, engr.

N. J., North Bergen—Town plans to improve 30th St. from Bergenline Ave. to Hudson Blvd. E. About $30,000. T. A. Harmon, Weehawken, engr.

Pennsylvania—State Highway Comn., Capitol, Harrisburg received no bids Mar. 20, building 8420 ft. Routes 239 and 536, vitr. brick block, Millville Boro., Columbia Co. L. S. Sadler, state highway comr. Noted Mar. 6.

Pa., Dubois—City voted $135,000 bonds to pave various streets and construct municipal building. Noted Feb. 6.

Pa., Pittsburgh—Comrs. Allegheny Co. soon receive bids building 2900 ft. Duncan Ave., 18 ft. wide and 5300 ft. Reuton Rd., Plum Twp., 16 ft. wide, telford macadam. R. V. Warren, co. engr.

Md., Baltimore—See "Miscellaneous."

Md., Baltimore—Comrs. for Opening Sts. plan to improve 225 blocks in Old Annex by grading, constructing armored concrete and redressed granite curb, sheet asphalt pavement over redressed and reset cobbles, sheet asphalt on 6 in. concrete base, and cement concrete, on following streets: 25th, Francis, Whitelock, McCulloh, 30th, 34th, Powers, 21st, 23rd Sts., Druid Hill, Maryland, Willington Aves., Gwynns Falls Pkway.; Dellwood, Morling, Conduit, Sycamore, Union and Mankin Aves., Vineyard Lane, Falls and Hillen Rds., 30th, 32nd and Jenifer Sts.; Independent, Frisby, Homestead and Wilson Sts., Cator, Maplewood, Ellerslie, Taylor and Guilford Aves., 28th, 34th, Lehman, Stafford, Lanvale, Grayson and Dukeland Sts., Garrison Lane, East Lynn, Warwick, Wheeler, Loretta and Lafayette Aves., Bloomingdale Rd.; Grayson, Grantley, Cheston, Laurens, Lynhurst, Allendale, Henderson, Ellamount and Morris Sts., Chelsea, Calvin Aves. J. H. Robinette, chn. About $853,000 available.

Md., Baltimore—Bd. Awards soon lets contract grading and paving, cement concrete, 1½ mi. alleys, 10 and 12 ft. wide, in rear of West Mulberry, West Fayette, East Clement, McElderry, North Carlton, West Franklin, North Lafayette, Greenwillow, Hoffman, Harvey, North Howard, East Fayette, West Lexington, East Preston, West Biddle, Brevard, North Chester, Cathedral, Division, Retreat, Sarah Ann, North Wolfe, Dolphin, Greenwillow, Walnut, East Madison, West Lanvale, Light and Richmond Sts., Druid Hill, North Carrollton, North Lafayette, Park, Woodbrook, Collington and Ashland Aves., also alley from Brexton alley and Park Ave. G. F. Wieghardt, engr.

Md., Baltimore—City Paving Comn. plans to improve about 20 mi. streets, involving grading, concrete armored curbing, paving, sheet asphalt, vitr. block, wood block and granite block redressed, cement concrete, all on 6 in. concrete base, as follows: Ann, Nanticoke, Carroll, Cleveland, Sargeant, Ward, Ostend, Wyeth, Mangold, Washington, Fort Henry, Weber, Gittings, Brickhead and Jackson Sts., Fort Columbia and Glyndon Aves.; Harvey, Byrd, Johnson, Gittings, Barney, William, Boyle, Heath, Cookside, Decatur, Clement, Beason, Woodall, Bloomsberry, Charles, Olive, Clarkson, Randall, Heath, Patapsco and Light Sts., Peach and Butler alleys; Williamson, Clement, Brickhead, Smallwood, Gilmor, Preston, Federal, Biddle, Cumberland, Friendsbury, Fleet, Hughes and Bentalou Sts., Plum alley, Fort Elwood, Luzerne and Milton Aves. R. K. Compton, 214 East Lexington St., ch. engr.

Va., Rocky Mount—City plans to pave 1½ mi. Main St., Floyd, Railroad and Claeborne Aves, macadam.

W. Va., Clarksburg—Comrs. Harrison Co. soon let contract grading and placing wearing surface on 6 sections of Class A roads, 10½ mi. long, 24 ft. wide with 16 ft. surface, involving 50,000 sq.yds. vitr. brick on 5 in. concrete base, 41,000 sq.yds. concrete, 63,000 lin.ft. curbing, and 72,000 cu.yd. earth excav. About $280,000. J. R. Wilson, co. engr.

W. Va., Lewisburg—Greenbrier Co. election Apr. 12, to vote on $126,000 bonds, which will be supplemented with Federal and state aid funds, to pave and grade 18 mi. road, 12 ft. wide, and build bridges in Meadow Bluff Dist. Total cost, $199,375. G. H. Hill, Charleston, engr.

N. C., Kinston—Lenoir Co. election Apr. 15, to vote on $2,000,000 bonds to build roads.

N. C., Rutherfordton—Comrs. Rutherford Co. plan to issue $25,000 bonds to improve Charlotte-Asheville Highway. Federal Government will appropriate like amount.

N. C., Shelby—Cleveland Co. election Apr. 14, to vote on $70,000 bonds to build roads.

S. C., Conway—Comrs. Horry Co. plan election to vote on $200,000 bonds to build roads.

S. C., Georgetown—Comrs. Georgetown Co. plan election to vote on $125,000 bonds to build roads.

Ga., Albany—Dougherty Co. plans election to vote on $350,000 bonds to pave various roads and build concrete bridge across Flint River. If election carries State Highway Comn. will appropriate like amount.

Ga., Dalton—Comrs. Whitfield Co. will receive bids in about 90 days for grading and chert surfacing 11 mi. roads, to include drainage structures and overhead crossings. Cost between $80,000 and $90,000. Johnson & Morgan, 500 Forsyth Bldg., Atlanta, engrs. Noted Mar. 13.

Fla., Ft. Pierce—Comrs. St. Lucie Co. soon receive bids improving highway between Ft. Pierce and Sebastian and building bridge over Sebastian River. Bonds for $50,000 sold for project.

Fla., Quincy—City plans election soon to vote on $40,000 bonds to pave various streets.

Fla., Winter Park—City plans to pave various streets. Cost $60,000; $30,000 of which will be borne by property owners.

Ala., Montgomery—Bd. Revenue, Montgomery Co. voted $50,000 bonds to build roads and bridges. U. S. Government will be asked to appropriate like amount.

Miss., Charleston—Tallahatchie Co. voted $100,000 bonds to build Jefferson Davis Highway, in Beats 1, 2 and 3.

Miss., Natchez—Bd. Superv. Adams Co. plans to issue bonds to complete 3 highways to connect with Franklin, Jefferson and Wilkinson Counties. Federal Government will appropriate $90,000 toward cost.

La., Cameron—Cameron Parish plans election to vote on $230,000 bonds to build hard surfaced roads in Dist. No. 3, $100,000 bonds for roads in Dist. No. 4 and $60,000 bonds for roads in Dist. No. 5. T. H. Mandell, Frank Bldg., Lake Charles, engr.

La., Shreveport—Caddo Parish Police Jury rejected bids for resurfacing 15 mi. gravel highway. About $12,000. Noted Feb. 13.

Ohio—State Highway Commn., Columbus, plans to build roads in following counties:

Knox Co., 4.2 mi. Columbus-Wooster Rd., grading, paving and building culverts, cost $173,000.

Delaware Co., 6.2 mi. Columbus-Sandusky Rd., grading, paving and building culverts, $217,000.

Union Co., 8.3 mi. Columbus-Marysville Rd., grading, paving and building culverts, $296,366.

Crawford Co., 2.8 mi. Galion-Bucyrus Rd., grading, paving and building bridges and culverts, $134,000.

O., Cincinnati—Comrs. Hamilton Co. plan to improve Harrison, Cleves-Warsaw and Glendale-Milford Pikes, also Dugan Gap and Montauk Rds. About $850,000. State will appropriate $350,000 toward cost. W. Boeh, co. surv.

O., Columbus—City plans to pave 2nd alley north of Main St. from Abbott to Stottard Aves.; Hood alley from Sparrow alley to Parsons Ave.; alley west of Morrison Ave. from Bryden Rd. to alley north of Main St. and 20th St. from Bryden Rd. to Rich St. H. Maetzel, city engr.

O., Columbus—Comrs. Franklin Co. soon receive bids grading, draining, paving with brick and building bridges on 4½ mi. road through Linden. About $300,000.

O., Toledo—City receives bids about May 15, grading, dredging, curbing, paving and building sewers and two bridges, on extension of Summit St. across Swan Creek. About $560,000. H. C. McClure, 229 Valentine Bldg., Toledo, engr.

O., Toledo—City receives bids about May 1, grading, curbing and paving 1494 ft. Burnham Ave. from Sylvania to Maple Aves., 24 ft. wide, involving 4300 sq.yd. paving on 6 in. concrete base, 3000 lin.ft. stone curbing and 2345 cu.yd. earth excav., cost, $28,815; 1 mi. Adams St. from Summit St. to Ashland Ave. involving 25,000 sq.yd. pavement on 7 in. concrete base, including tearing up existing 40 ft. stone block on sand foundation, resetting stone curb and paving to width of 40 ft., $130,000. Bids will be received on all types of pavement.

O., Toledo—Lucas Co. plans to drain, grade, curb and pave 1.5 mi. Joffre, Calumet and Carrolton Aves., 24 ft. wide, involving 21,450 sq.yd. vitr. brick on concrete base and 15,400 lin.ft. stone curb; 2.5 mi. Starr Ave., 16 ft. wide, concrete; 1 mi. Wheeling St., 16 ft. wide, concrete; 1½ mi. Suder Ave., 16 ft. wide, concrete; 2.01 mi. Seamen St., 16 ft. wide, 2 course waterbound macadam. C. L. Read, co. engr.

O., Toledo—Lucas Co. having plans prepared grading, draining, curbing and paving 5740 ft. Mt. Vernon Ave., 21 ft. wide; 2470 ft. Richmond Rd., 24 ft. wide; 2558 ft. Potomac Dr. 24 ft. wide; 2500 ft. Shenandoah Rd., 24 ft. wide, bituminous concrete on concrete foundation, concrete curbing and guttering; grading paving and curbing Upton Ave. from city limits to Central Ave., 1 mi. 16 ft. wide and ½ mi. 24 ft. wide, involving 7100 sq.yd. vitr. brick, 9500 sq.yd. concrete, 5500 lin.ft. stone curbing; tearing up existing 16 ft. bituminous bound macadam on 4.86 mi. River Rd. and grading, curbing and paving with either concrete, brick or asphaltic concrete, 27-36 ft. wide. C. H. Rood, Toledo, engr.

Mich., Detroit—City Council authorized Comr. Pub. Wks. to prepare estimates for material as may be determined upon to pave 4500 ft. Holmur Ave. from Grand River Ave. to Joy Rd.; 2000 ft. Radford Ave. from Grand River Ave to Quincy Ave. and Distel Ave. from Fort to Oliver Sts. C. W. Hubbell, city engr.

Streets and Roads (Continued)

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving Huron St. from Ottawa to Bagg Sts., 20 ft. wide, cost $11,970; Alexandarine Ave. from Duboise St. to McDougal Ave., 26 ft. wide, $29,013; Leland St. from St. Aubin Ave. to Chene St., 26 ft. wide, $17,043; Fulton St. from Wabash R.R. to end of street, 26 ft. wide, $16,356; Vancourt Ave. from Warren to Tireman Aves., 26 ft. wide, $40,796; Military Ave. from Plumer to Federal Aves., 26 ft. wide, $8440; Gartner Ave. from Beard St. to Lawndale Ave., 26 ft. wide, $59,220, all asphaltic concrete (natural lake asphalt) on concrete base, Berea or Medina curbing; Gould St. from Crossley to Anderson Ave., 20 ft. wide, brick on concrete base, $3306; Longfellow Ave. from Linwood to Lawton Ave., 26 ft. wide, asphaltic concrete, $18,963. C. W. Hubbell, city engr.

Illinois—State Highway Comn., Springfield, plans to build State Rd. east of Sullivan, Moultrie Co., 10 or 16 ft. wide, Portland cement, cost $11,000; State Rd. north of Pipe City, Ford Co., 10 ft. wide, Portland cement, $17,000. H. E. Bilger, Springfield, rd. engr.

Illinois—State Highway Comn., Capitol, Springfield, soon receives bids building 1783 ft. State-aid Rd., Sect. E., 10 ft. wide, Greenville Twp., Bond Co., involving 2120 sq.yd. vitr. brick on 5 in. concrete base, 3000 cu.yd. excav., 93 cu.yd. concrete in culverts and bridges, cost $10,600; 11,700 ft. Watseka-Gilman Rd., 10 ft. wide, Watseka Twp., Iroquois Co., involving 13,000 sq.yd. concrete, 4747 cu.yd. excav., 82 cu.yd. concrete in culverts and bridges, $37,000. H. E. Bilger, Springfield, rd. engr.

Illinois—State Highway Comn., Springfield, receives bids in April building and improving about 90 mi. Lincoln Highway, 16 and 18 ft. wide, either brick, Portland cement, concrete or bituminous concrete; 50 mi. Dixie Highway, 16 and 18 ft. wide, either brick, concrete or bituminous concrete. Work will be divided into 6-7 mile sections for contract purposes. H. E. Bilger, Springfield, rd. engr. Noted Jan. 9.

Ill., Bellville—Bd. Supervs. St. Clair Co. receives bids in April resurfacing 7300 ft. Shiloh-O'Fallon Rd., Sect. L.15 d., 16 ft. wide, involving 12978 sq.yd. waterbound macadam, 995 cu.yd. earth excav., 3400 tons novaculite macadam. About $13,600. C. O. Thomas, co. engr.

Ill., Havana—Bd. Supervs. Mason Co., plans to sell $55,000 bonds Apr. 1, to build 2.3 mi. Springfield-Peoria Rd., 16 ft. wide, cement, concrete or brick. H. V. Schoonover, co. supt. highways.

Ill., Moline—City soon receives bids paving 15th St. from 3rd to 25th Aves. About $40,000. L. Payton, city engr. preparing plans.

Ill., Springfield—Comrs. Sangamon Co. voted Mar. 13, to sell bonds to build South 6th St. Rd. cost $132,000, Beardstown Rd., $132,000, Peoria Rd. $95,300 and Chatam-St. Louis Rd., $139,700, brick or concrete, 16-18 ft. wide. E. H. White, co. supt. highways.

Wis., Appleton—Comrs. Outagamie Co. soon lets contract grading, draining and surfacing with concrete .84 mi. Appleton Brickyard Rd., 16 ft. wide involving 2400 cu.yd. grading and 7200 sq.yd. 8 in. concrete, cost $17,000; 3.03 mi. Hortonville Appleton Rd., 16 ft. wide, 9540 cu.yd. grading and 28,406 sq.yd. 8 in. concrete, $56,000; 2.5 mi. Black Creek Appleton Rd., 16 ft. wide, 7776 cu.yd. grading and 23,375 sq.yd. 8 in. concrete, $50,000. Wisconsin Highway Comn., Madison, engrs.

Ia., Adair—City receives bids about Apr. 15 for paving 50,000 yd. and curbing and guttering 25,000 ft. T. S. De Lay, Creston, engr.

Ia., Davenport — City instructed R. E. Sawistowsky, city engr. to prepare plans paving alley between Gaines and Brown St from 13th to 14th Sts., alley between 6th and 7th St. from Fillmore to Ainsworth Sts., alley in block 16, McClellan Heights between Mueller and Forest Rd. alley from Ash to Vine Sts. between 6th and 7th Sts., alley between Iowa and LeClair Sts., from Central Park Ave. to Columbia Ave., alley between 14th and 15th Sts., from Arlington to Bridge Aves., Jackson Ave. from Lincoln Ave. to 116 ft. west of Park Court, Lincoln Court from Newbury St. to Hadlai Heights and Telegraph Rd. from Clark to Mary Sts. Noted Jan. 30.

Ia., Des Moines—Comrs. Polk Co. will let contract about Apr. 1, grading 35 mi. road. Cost, $0.48 per yd. C. Coykendall, co. engr.

Kan., Atchison—Atchison Co. plans to spend $2,000,000 for hard surfacing roads.

Neb., Lincoln—City soon lets contract paving 1800 ft. 26th St., 30 ft. wide, Dist. 299, and resurfacing 2000 ft. 17th St., 40 ft. wide, Dist. 71. About $31,500. Noted Mar. 20.

N. D., Williston—Comrs. Williams Co. plan to expend $60,000 to build roads. M. Aaen, co. aud.

Mont., Billings—City plans to pave Custer and Terry Aves., Dist. No. 168, totaling 25,000 sq.yd. About $92,000. E. M. Sneckenberger, city engr.

Mo., Eldorado Springs—Eldorado Springs Special Rd. Dist., Cedar Co., voted to issue $50,000 bonds to build rock road. H. C. Young, Eldorado Springs, engr.

Mo., Kansas City—Jackson Co. having estimates made by O. C. Sheley, co. highway engr., for macadamizing 2 mi. Sugar Creek and Cement City Rd.

Mo., Kansas City—Park Bd. plans to convert Brush Creek Park, which is irregular shape and 36 acres in extent, into parkway and Boulevard. R. H. Waddell, acting engr.

Ark., Jonesboro—Bd. Comrs. Craighead Co. soon lets contract grading, draining and paving with macadam and treating with bituminous surfacing 24.7 mi. Lake City, Nettleton and Bay Rd., Impvt. Dist No. 1, involving 189,750 gal. asphaltic oil, 249,755 sq.yd. bituminous, 167,000 cu.yd. grading, 1149 cu.yd. concrete in culverts and bridge abutments, and 50.8 ton steel for stringer and beam bridges. Klyce & Kackley, 721 4th and 1st Natl. Bank Bldg., Nashville, Tenn., engrs.

Ark., Walnut Bidge — Western Dist., Lawrence Co., soon receives bids building 110 mi. macadam roads. L. H. Kaiser, Smithville, secy. bd. comrs. Pritchett & Hight, Walnut Ridge, highway engrs.

Tex., Boerne—Comrs. Kendall Co., Precinct No. 1, election Apr. 12 to vote on $50,000 bonds to build roads.

Tex., Clarendon—City retained H. E. Elrod Co., engrs., Interurban Bldg., Dallas, to prepare plans for paving various streets. About $60,000.

Tex., Cleburne—Johnson Co. election Apr. 5 to vote on $50,000 bonds to build concrete road in Parker Dist.

Tex., Cuero—Comrs. Dewitt Co. plan to build 12½ mi. road, tarvia top. About $80,000 available.

Tex., Denton—City will issue $100,000 bonds to improve various streets. Noted Feb. 20.

Tex., Denton—Comrs. Denton Co. voted $1,500,000 bonds to build State Highway from Roanoke to Dennison.

Tex., Eldorado—Comrs. Schleicher Co. plan to build 30 mi. 12 in. rock surface road. About $200,000. Election will be held Apr. 5 to vote on $125,000 bonds for project and Federal and State Aid will contribute $85,000.

Tex., Gainesville—Cooke Co. election Apr. 12 to vote on $1,500,000 bonds to build roads.

Tex., Gonzales—Gonzales Co., Dist. No. 2, voted $75,000 bonds to build section of Southern Natl. Highway.

Tex., Groesbeck—Comrs. Limestone Co., Willow Spring Dist. No. 13, plan election Apr. 19 to vote on $30,000 bonds to build roads; Thornton Dist. No. 14, $250,000; Groesbeck Dist. No. 15, $300,000.

Tex., Hillsboro—Comrs. Hill Co., Osceola Dist. No. 4, will vote Mar. 29 on $50,000 bonds to improve roads; Covington Dist. No. 5, April 5, on same amount. Noted Feb. 27.

Tex., Livingston—See "Bridges."

Tex., McKinney—City voted $50,000 to pave streets. C. Schulf, engr.

Tex., Ranger—See "Sewers."

Tex., Sherman—Comrs. Grayson Co. plan to vote on $70,000 bonds to build roads.

Tex., Vernon—Wilbarger Co. election Apr. 19 to vote on $1,500,000 bonds to build 89 mi. road.

Tex., Waxahaenie—City plans to expend $45,000 to pave streets. J. D. Kir[illegible] city engr.

Tex., Weatherford—City havin[illegible] plans prepared by H. E. Elrod Co., engrs., Interurban Bldg., Dallas, for paving various streets. About $180,000.

Okla., Miami—City passed ordinance to pave 33 blocks, concrete. About $[illegible],000.

Colo., Denver—City plans to surface with smelter slag, sand gravel and loam East-side Surfacing Dist. No. 1. About $[illegible],059. J. A. Hunter, city engr.

Idaho—State Highway Comn., Capitol, Boise, plans to grade and surface 50 mi. highway through Mountain Home and Glenns Ferry Highway Dists. C. H Allen, state rd. engr.

Idaho—State Highway Comn., Capitol, Boise, receives bids about May 15, grading and surfacing 30.5 mi. Federal aid road on North and South Highway from New Meadow to Whitebird. About $650,000. H. C. Allen, state rd. engr.

Idaho, Boise—City plans to pave 11th and 12th Sts. from Bannock to State Sts., and from Front St. to Citizens right-of-way. About $25,142. C. C. Stevenson, city engr.

Idaho, Idaho Falls—City receives bids about May paving 4 mi. various streets. About $200,000.

Utah, Provo—City plans to pave several blocks. About $55,000. C. R. Swan, city engr.

Utah, Provo—Provo Co. plans to issue $750,000 bonds to build roads and bridges.

Ariz., Clifton—Greenlee Co. Highway Comn. recommended building road between Morenci and Eagle River pumping station, cost, $40,000; building and repairing trails in Morenci, $15,000; highway from Buzzards Roost on Clifton-Duncan Rd. through Blackjack Gap to state line, $125,000. A. L. Terry, clk bd. supervs.

Washington—State plans election November 1920, to vote on $30,000,000 bonds to pave and build about 1400 mi. roads.

Wash., Bremerton—City receives bids in April paving 13,000 ft. 4th St. Park, Washington and Burwell Aves., 26-36 ft. wide, 1 course Portland cement concrete, etc., involving 28,000 cu.yd. grading, 30,000 ft. each of concrete curb and gutter, curb 6 and 8 in. thick, etc. F. S. Hathaway, city engr.

Wash., Montesano—Grays Harbor Co. plans election Apr. 15, to vote on $400,000 bonds to be added to state and Federal funds to build 11 mi. North River Rd., $100,000, 15 mi. Westport Rd. from South Aberdeen to Cohasset, $150,000; 36 mi. Olympic Highway, $900,000; 8 mi. Pacific Beach Rd. from Copalis Crossing to Aloha, $80,000; 27 mi. Quinault Rd. from Lake Quinault to Jefferson Co. line, $350,000; 10 mi. C. D. Hansen Rd., $60,000. Road and Bridge funds available, $250,000, state and Federal aid, $600,000, permanent highway fund, $250,000, 6 county district road funds, $140,000.

Oregon—State Highway Comn., Salem, having plans prepared paving road from Albany to Tangent, Linn Co.; 6 mi. road from Jefferson to Salem, Marion Co., grading road from Scappoose to McBride, Columbia Co.; Smith Hill grade from 8-5 per cent, Josephine Co.; 1 mi. road from Canyonville to Galesville, Douglas Co.; grading and graveling road from Echo to Morrow Co. line, Umatilla Co.; building overhead or underground crossing on Hood River-Mosier Sect., also Coyote Cut-off, Messner, Morrow Co.; paving 4 mi. road between Salem and Brooks, Marion Co., with Federal aid.

Oregon—State Highway Comn., Salem, receives bids about Apr. 1, improving road from South end of Youngs Bay drawbridge to Warrenton. Plans include lowering dike 3 ft. from Miles crossing to bridge. H. Nunn., engr.

Oregon—State Highway Comn., Capitol, Salem, plans to hard surface Wild Horse Rd. through Athena and Adams, Umatilla Co. connecting with Washington Highway.

Ore., Pendleton—Umatilla Co. voted $1,050,000 bonds for following highways: 10 mi. road from Havana to Helix $90,000; 8 mi. road from Pilot Rock to Nye, $20,000; 30 mi. road from Pendleton to Cold Springs, $185,000; 10 mi. road from Sunnyside to Umapine, $30,000; 11 mi. road from Pen-

Streets and Roads (Continued)

dleton to Pilot Rock, $70,080; 11 mi. road from Nye to Morrow Co., $15,000; state aid as follows: 40 mi. road from Pendleton to Morrow Co. line, state $240,000, county $250,000; 7 mi. road from Washington line to foot of Milton Hill, state $80,000, county $50,000; 35 mi. road from Pendleton to Union Co. line, state $60,000, county $100,000; 9 mi. road from Milton Hill to Weston, state, $87,000, county, $80,000; 7.3 mi. road from Athena to Eastland, state $70,000, county $65,000. 3.7 mi. road from Weston to Athena, state $39,000, county $30,000; Federal aid as follows: 45 mi. road from Nye to Grant Co., Federal aid $50,000, county $65,000. Noted Mar. 6.

Ore., The Dalles—City soon lets contract paving Union St from 10th to 14th Sts., 9th St. from Union St. to western city line, West 6th St. from Liberty to Lincoln Sts., West 7th St. from Lincoln to Garrison Sts., bitulithic on rock or concrete base and asphaltic concrete on concrete base. R. A. Garron, city engr. Noted Feb. 20.

Cal., Los Angeles—Bd. Pub. Wks. soon receives bids building 1¾ mi. Harbor Truck Blvd. to San Pedro Dist., 30 ft. wide, crushed rock foundation, concrete base, oil and screening surface. About $310,000. C. M. Hansen, city engr.

Cal., Los Angeles—Bd. Supervs., Los Angeles Co., will furnish material valued at $50,000 to build 14 mi. roads near Sierra Madre, concrete base, oil and screenings surface, concrete and corrugated iron culverts. Citizens organizing road district to carry out improvement. F. H. Joyner, co. highway engr.

Cal., Los Angeles—C. M. Hansen, city engr., submitted estimate to City Comrs. for grading and paving 4½ mi. scenic boulevard on Mt. Washington with concrete. About $67,000. Work involves concrete and corrugated iron culverts, etc.

Cal., Los Angeles—Bd. Pub. Wks. soon receives bids building 12 mi. highway from Lomita to San Pedro Harbor, Municipal Impvt. Dist. No. 7. About $199,647. Work involves 100,166 cu.yd. grading, $50,082; 477,834 sq.ft. crushed rock and concrete pavement, $106,222; 477,834 sq.ft. oil and screenings surface, $6594; 216,095 sq.ft. grading and oiling shoulders, $9292; culverts and bulkheads, $8426; bridge, $10,000, etc. A. C. Hansen, city engr. Noted Dec. 5.

Cal., Sacramento—City receives bids in April grading and paving 6850 ft. Franklin Blvd., from Y St. to city limits, 20 ft. wide, with 20 ft. strip of 5½ in. concrete, involving 15,300 sq. yd. concrete, 7000 cu.yd. earth excav., 1683 ft. 6 in. vitr. pipe, 411 ft. 8 in. vitr. pipe, 46 gutter drains, etc. F. C. Miller, city engr.

Cal., San Diego—City plans to grade and pave 10,500 ft. India, Pierce, California and Taylor Sts., La Jolla and San Diego Aves., 20 and 30 ft. wide, portland cement concrete base, 5 in. thick with bitulithic wearing surface, cost, $60,000; grading and paving 4800 ft. Jackdaw, Hunter and Hawks Sts., Avalon and Arcadia Drives, 30 ft. wide, 1 course Portland cement concrete base 4 in. thick with asphaltum and rock screenings wearing surface, $32,000. G Cromwell, city engr.

Cal., Selma—City plans to pave 1½ mi. business streets, concrete.

Quebec—Provincial Rd. Dept., Quebec, plans to gravel 22,025 ft. Grand Communication Rd., 20 ft. wide, in Chateauguay Co., St. Antoine Abbe Twp.; cost $27,000; 17,506 ft. Tulloghorum Rd., Chateauguay Co., St. Malachie d' Ormstorm Twp., $16,000; Monte des Boulax Rd., Lapraire Co., in St. Constan Twp., bituminous macadam (penetration method) 3 in. top course and seal coat, $20,000. A. Pardis, c/o Provincial Rd. Dept., engr.

Ont., Ottawa—Dept. Pub. Highways, Toronto, soon lets contract building 54 mi. Ottawa-Prescott Highway, 28 ft. wide, including 192 concrete culverts and 12 bridge abutements. Work involves 17,546 cu.yd. excav., 13,991 cu.yd. concrete, 16,590 lbs. cement and 70 tons steel. About $250,000. G. Hogarth, c/o Dept. Pub. Highways, engr. Noted Feb. 6.

Ont., Strathroy—City having plans prepared by James, Loudon & Hertzberg, engrs., 36 Toronto St., Toronto, laying bituminous pavement. About $50,000.

Ont., Toronto—Toronto & York Rds. Comn. soon lets contract building waterbound macadam road. About $60,000. E. A. James, 57 Adelaide St., engr.

Ont., Wellesley—Town soon receives bids paving Main St. About $15,000. Cost will be borne by town and Waterloo Co.

BIDS DESIRED

New Hampshire—Until Apr. 4, by State Highway Comn., Concord, resurfacing 5095 ft. Merrimack Valley Rd., 18 ft. wide, involving 10,190 sq.yd. bitumious concrete, 2 in. Modified Topeka asphalt on old macadam base. About $12,000. F. H. Colburn, State House, div. engr. Noted Mar. 13.

Rhode Island—Until Apr. 2, by State Bd. Pub. Wks., Providence, building 2.4 mi. state road, 18 ft. wide, in Smithfield and Gloucester Twps., involving 9250 cu.yd. excav., 3500 cu.yd. borrow, 500 cu.yd. ledge, 3450 cu.yd. stone fill, 3350 cu.yd. gravel foundations, 160 cu.yd. concrete masonry, 1500 sq.yd. rip-rap, 1100 sq.yd. cobble gutter, 2750 lin.ft. wooden guard rail, 6000 tons crushed stone, 26,000 sq.yd. Topeka bituminous concrete. J. W. Patterson, Providence, engr.; advertised in this issue.

R. I., Pawtucket—Until Apr. 15, by Comr. Pub. Wks., paving 10,500 sq.yd. Main St. and 7900 sq.yd. Prospect and School Sts., grouted granite blocks on concrete base. I. Gill, city engr.

R. I., Providence—Until Apr. 9, by Water Supply Bd., building 1.8 mi. road in Scituate Twp., Contr. 4, involving 12,000 cu.yd. excav., 2000 cu.yd. rock excav., 5000 cu.yd. borrow, 250 cu.yd. concrete masonry; 3.4 mi. road in Foster Twp., Contr. 7, 20,000 cu.yd. earth excav., 2000 cu.yd. rock excav., 10,000 cu.yd. borrow and 190 cu.yd. concrete masonry. F. E. Winsor, 661 Westminster St., ch. engr.; advertised in this issue.

N. Y., Albany—Until Apr. 7, by Bd. Contr. & Supply, 91 State St., improving Ridgefield St., involving 6000 cu.yd. excav., 1000 lin.ft. granite curb, 5700 sq.ft. concrete sidewalk, 1900 sq.yd. asphalt or vitr. block; Park Ave., 800 lin.ft. concrete curb, 1600 sq.yd. vitr. block pavement; grading Bradford St., 400 sq.yd. excav., 7800 sq.yd. extra fill; improving Catherine St., 1500 sq.yd. asphalt or vitr. block, 900 lin.ft. concrete curbing, 3500 sq.ft. concrete sidewalk; Mapleridge St., 3500 cu.yd. excav., 1750 ft. granite curb, 10,000 sq.ft. concrete walks, 27,000 sq.yd. asphaltic concrete pavement; also sewer in Frisbit Ave., 280 ft. 12 in. vitr. tile sewer. About $62,000. I. Wacksman, secy.

N. Y., Ithaca—Until Apr. 9, by H. L. Stewart, city engr., paving various streets. Work involves 5600 sq.yd. brick pavement with concrete foundation, 20,000 sq.yd. brick pavement over old macadam, 5600 sq.yd. bitulithic surface on bituminous concrete foundation, 5600 sq.yd. bitulithic surface on cement concrete foundation, 20,000 sq.yd. bitulithic surface on old macadam, 10,200 lin.ft. cement concrete curb.

N. Y., Lockport—Until Apr. 14, by J. L. Greenman, city clk., improving 1.13 mi. Gooding and West Jackson Sts., from Grant St. to city line, brick and Hillside brick on all grades over 5% and concrete on grades less than 5%. Work involves 8770 sq.yd. brick and 5454 sq.yd. concrete pavement and 6400 lin.ft. concrete curb. About $60,000. Noted Jan. 9.

N. Y., Long Island City—Until Apr. 2, by M. E. Connolly, pres. Queens Boro., regulating and grading sidewalk and gutter spaces, laying sidewalks, etc., on Barclay Ave. from Parsons Blvd. to 147th St., Delaware Ave. from Parsons Ave. to 147th St., 153rd St. from Northern Blvd. to 34th St., Gates Ave. from Grandview to Forest Aves.; also repairing sheet asphalt pavement in 1st and 2nd Wards.

N. J., Camden—Until Apr. 7, by C. F. Wise, chn. road com., Camden Co., widening and resurfacing portion of Camden, Ellisburg and Marlton Turnpike Rd., bituminous surface, on old Telford and new Telford foundation. Work involves 5640.19 tons bituminous concrete, 9471 tons new stone for foundation. F. W. George, clk.; advertised in this issue.

N. J., Lambertville—Until Apr. 3, by Comrs. Hunterdon Co., resurfacing portion of Ringoes-Woodsville Rd. involving 15,000 tons crushed stone and 15,000 gal. tarvia. G. Davis, co. engr.

N. J., Newark — Until Apr. 1, by T. L. Raymond, dir. dept. sts. & impvts., repaving Clinton Ave. from West Newark Branch of Pennsylvania R.R. to west side Chadwick Ave., involving 5100 sq.yd. granite block on 8 in. concrete base, 170 sq.yd. bluestone flagging, 2600 lin.ft. granite curbing and 4000 ft. cement sidewalk; Wilson Ave. from Hyatt Ave. to Newark Bay, 15,000 sq.yd. granite block, 9000 lin.ft. bluestone curbing, 5000 cu.yd. earth fill; Sussex Ave. from High to Summit Sts., 1150 sq.yd. asphalt, 50 yd. brick gutter; South St. from New Jersey R.R. Ave. to east side of Pacific St., 7000 sq.yd. granite block, on 8 in. concrete base, 90 sq.yd. bluestone flagging, 405 lin.ft. granite curbing and 2000 ft. cement sidewalks, Springfield Ave. from Morris Ave. to city line, 25,600 sq.yd. granite block, on 8 in. concrete base, 890 sq.yd. blue stone flagging, 1800 cu.yd. concrete, 12,000 lin.ft. granite curbing, 18,000 ft. cement sidewalk; South Orange Ave. from Springfield Ave. to west side of South 9th St., 15,200 sq.yd. granite block, on 8 in. concrete base, 1000 sq.yd. bluestone flagging, 11,600 lin.ft. granite curbing, and 18,000 ft. cement sidwalk. M. R. Sherrerc, City Hall, engr. Noted Mar. 3.

Pennsylvania—Until Apr. 3, by State Highway Comn., Capitol, Harrisburg, furnishing and applying bituminous materials as follows: 28,300 gal. Class H, 747,900 gal. Class D (dust allayer), 609,410 gal. Class C, Dist. No. 1; 13,300 gal. Class H, 270,453 gal. Class D (dust allayer), 295,148 gal. Class C, Dist. No. 2; 66,933 gal. Class H, 698,585 gal. Class D (dust allayer) 730,642 gal. Class C, Dist. No. 3; 48,100 gal. Class D (dust allayer), 534,290 gal. Class C, Dist. No. 4; 21,100 gal. Class D (dust allayer), 1,006,904 gal. Class C, Dist. No. 5. L. S. Saddler, comr.

Pennsylvania—Until Apr. 11, by State Highway Comn., Capitol, Harrisburg, rebuilding state roads in following counties: 6915 lin.ft. rein.-con. and 43,391 ft. bituminous surface course on concrete foundation; Bradford Co., 16,362 ft. bituminous surface course on concrete foundation; Franklin Co., 8000 ft. rein.-con.; Fulton Co., 15,020 ft. rein.con.; Jefferson Co., 20,720 ft., bituminous surface on concrete foundation; Lackawanna Co., 37,731 ft. bituminous surface course on concrete foundation; Northumberland Co., 20,366 ft. bituminous surface course on concrete foundation; Pike Co., 29,546 ft. bituminous surface course on concrete foundation; Mckean Co., 9934 ft. vitr. brick; Somerset Co., 6675 ft. rein.-con. and Hillside vitr. brick. Bids will also be received for resurfacing with bituminous mixtures on prepared broken stone base 39,824 ft. in Berks Co. and 74,189 ft. in Lebanon Co. L. S. Sadler, state highway comr.; advertised in this issue.

Pa., Phila.—See "Railways, Pennsylvania."

Pa., Pittsburgh—Until Apr. 8, by J. P. Moore, controller of Allegheny Co., paving with Telford macadam 10,500 ft. New England Rd. from Duquesne and Dravosburg Rd. near Coal Valley Sta., along Pine Run to village of New England in Mifflin Twp., 16 ft. wide. R. V. Warren, Room 303 Court House, engr. Noted Mar. 20.

Pa., Reading—Until Apr. 16, by city, furnishing oil and oiling about 500,000 sq.yd. macadam streets. E. B. Ulrich, city engr.

Maryland—Until Mar. 31, by F. H. Zouck, chn. state rds. comn., 601 Garrett Bldg., Baltimore, grading and building 1.4 mi. State Highway from Green Ridge to west side of Polish Mountains, Allegany Co., Contr. A-13; advertised in this issue.

W. Va., Keyser—Until Apr. 15, by Comrs. Mineral Co. building 12 mi. Class A roads, between Ridgley and Alaska. E. Smith, Piedmont, div. engr.

Ala., Dothan—Until Apr. 7, by city, building about 16,500 sq.ft. Schillinger pavement, 2600 lin.ft. curbs and gutters and 60 cu.yd. excav. A. Black, chn. st. com.

Ky., Frankfort—Until Apr. 1, by Comrs. Pub. Rd., improving 3.11 mi. Canonsburg Rd., 16 ft. wide, 3.89 mi. brick, remainder surface treated slag macadam, involving 34,000 cu.yd. earth and 200 cu.yd. rock excav., 36,000 sq.yd. scarifying and reshaping, 17,000 tons crushed slag, 36,000 sq.yd. brick, 600 cu.yd. 1:4:4 and 300 cu.yd. 1.2½:5 concrete, 39,000 lb. reinforcement, 40,000 sq.yd. bituminous treatment, etc.; also 11.27 mi. Grayson Boyd Co. Rd., 16 ft. wide, 1.12 mi. slag macadam, remainder graded earth involving 2 acres, clearing and grubbing, 112,000 cu.yd. earth and 39,000 cu.yd. rock excav., 1300 cu.yd. 1:2:4 concrete, 74,000 lb. reinforcement, 2900 tons crushed slag, etc. Project includes five 20 ft. span bridges, involving 50,000 lb. reinforcement, 112,000 lb. steel, etc. R. Wiley, comr.

Streets and Roads (Continued)

O., Perrysburg—Until Apr. 1, by Village grading, draining and paving 5120 ft., 5th St. from Mulberry to Hickory Sts., 26 ft. wide, involving 16,417 sq.yd. concrete, 11,035 lin.ft. concrete curbing, 10,860 cu.yd. earth excav. About $57,226. G. Champe, 610 Nasby Bldg., Toledo, engr.

Michigan—Until Apr. 2, by State Highway Comn., Lansing, building 5 mi. road, Federal Aid Project No. 28, Branch Co. F. F. Rogers, Lansing, state highway comr.

Mich., Flint—Until Apr. 3, by Comrs. Genessee Co. shaping, draining and building 8.81 mi. gravel road in Clayton and Flushing Twps.

Wisconsin—Until Mar. 31 by Wisconsin Highway Comn., Green Bay, grading and surfacing with concrete 4.46 mi. Oshkosh-Fond du Lac Rd., 16 ft. wide, involving 11,267 cu.yd. grading, 41,557 sq.yd. 8 in. concrete and 1816 ft. 15 in. sewer pipe. About $90,000. Noted Mar. 20.

Wis., Dodgeville—Until Apr. 1, by Comrs. Iowa Co. for Lake to River Rd., Project No. 34. Work involves 11,267 cu.yd. earth excav., 190 cu.yd. excav. borrow, 237 cu.yd. Class A concrete 6.2 cu.yd. concrete in catch basins, 41,557.5 sq.yd. concrete surface and 1816 lin.ft. 15 in. sewer pipe. E. J. Perkins, co. highway comr.

Wis., Elkhorn—Until Mar. 31, by Comrs. Walworth Co. grading and paving Lake Geneva Rd., Project No. 10. Work involves 3762 cu.yd. excav., 18.6 cu.yd. Class A concrete, 17,600 sq.yd. concrete surface. H. J. Peters, co. highway comr.

Wis., Fond du Lac—Until Apr. 2, by Fond du Lac Co. Rd. Com., grading and surfacing with concrete 1.25 mi. Fond du Lac Taycheedah, Rd., 18 ft. wide. About $25,000. Wisconsin Highway Comm., Madison, engrs. Noted Mar. 13.

Wis., Lancaster—Until Apr. 1, by Comrs. Grant Co., grading and paving Platteville Rd., Project No. 41. Work involves 1 acre clearing and grubbing, 10,675 cu.yd. earth excav., 526 cu.yd. rock excav., 528 acres borrow excav., 115 cu.yd. Class A concrete, 2100 lin.ft. guard rail, 1294 sq.yd. concrete surface, 32 lin.ft. vitr. pipe, 175 cu.yd. concrete in bridges, 43,152 lb. structural steel, 640 lin.ft. wooden piles. H. Mink, co. highway comr.

Wis., Port Washington—Until Mar. 31, by Comrs. Ozaukee Co. grading and paving Pt. Washington Rd. Work involves 4229 cu.yd. earth excav., 24 cu.yd. borrow, 73.4 cu.yd Class A concrete, 810 lin.ft. guard rail and 16,394 sq.yd. concrete surface. J. H. E. Mueller, Thiensville, co. highway comr.

Wis., Richland Center—Until Apr. 1, by Comrs. Richland Co. grading and paving Richland Center Rd., Project No. 66. Work involves 5532 cu.yd. excav., 77 cu.yd. borrow, 75.1 cu.yd. Class A concrete, 320 lin.ft. guard rail and 20,044 sq.yd. concrete surface. M. O. Carter, co. highway comr.

Wis., Waukesha—Until Apr. 7, by city, for 1150 sq.yd. paving, 796 lin.ft. curbing and guttering, 370 yd. excav. on Colton St., 1498 yd. paving, 968 lin.ft. curbing and guttering, 417 yd. excav., Woodward Ave., 3907 yd. paving 2300 lin.ft. curbing and guttering, 1462 yd. excav., West Ave., 3217 yd. paving, 1948 lin.ft. curbing and guttering, 1208 yd. excav., College Ave., 4473 yd. paving, 2680 lin.ft. curbing and guttering, 1417 yd. excav., State St. W. Powrie, city engr.

Ia., Mason City—Until Apr. 2 by city, for 53,000 sq.yd. paving and 22,000 lin.ft. cement curbing. J. H. McEwen, city clk.

Ia., Schaller — Until Apr. 4, by city, for 65,000 sq.yd. paving and 40,000 ft. curbing and guttering. Bids will be received on several kinds of pavement. C. H. Currie, Webster City, engr.

Minn., Breckenridge—Until Apr. 7, by city, for all material and labor for building sidewalks, curbs, gutters and crossings during year. R. R. Waite, city clk.

Minn., Ebro—Until Apr. 11, by Comrs. Clearwater Co., Courthouse Bagley, building 6 mi. highway.

Minn., Minneapolis—Until Apr. 14, by Comrs. Hennepin Co., paving, grading and surfacing Osseo-Champlin Rd., 18 and 20 ft. wide. Work involves 62,956 sq.yd. bitulithic brick on 5 and 6 in. concrete base, 59,520 sq.yd. vertical fiber, 62,956 sq.yd. concrete and 24,267 cu.yd. earth excav. E. E. Terrell, co. survey.

Minn., St. Paul—Until Mar. 31, by H. W. Austin, purchasing agent, City Hall, furnishing labor and material for curbing, leveling, filling and improving East 5th St. from Mendota to Forest Sts.; Earl St. from Hastings Ave. to Thorne St., involving 897 bbls. Portland cement, 52 tons asphalt cement, 57 tons limestone dust, 718 cu.yd. crushed rock for concrete base, 431 cu.yd. concrete sand, 138 cu.yd. fine asphalt sand, 104 cu.yd. coarse asphalt sand, 211 cu.yd. trap rock, 1423 ft. B. M. No. 1 rough pine lumber, 3 x 12 in.; Concord St. from Ada to Annapolis Sts.; furnishing material, grading and improving alley in block 9, Merriam Park, 2nd Addition; Avon St. from Laurel to Summit Aves.; Laurel Ave. from west line Syndicate Ave. to Lexington Ave.; Como Ave. west from Snelling to Raymond Ave.

Neb., Columbus—Until Apr. 15, by Platte Co., grading and surfacing 48.1 mi. road from Norfolk to Columbus, 24 ft. wide, Madison and Platte Counties. Work involves 212,000 cu.yd. earth excav., 16,800 cu.yd. sand clay surfacing and 265 cu.yd. concrete in culverts. About $104,000. G. E. Johnson, Lincoln, state engr. Noted Jan. 22.

Neb., Gandy—Until Apr. 19, by Logan Co., grading and surfacing 17.1 mi. road from Stapleton to Ringold, 24 ft. wide, in McPherson and Logan Counties. Work involves 62,564 cu.yd. earth excav., 11,690 cu.yd. sand clay surfacing and 125 cu.yd. concrete in culverts. About $36,000. G. E. Johnson, Lincoln, state engr.

Neb., Lincoln—Until Apr. 14, by Lancaster Co., grading 4 mi. West Emerald Rd., 24 ft. wide, involving 50,000 cu.yd. earth excav. About $19,000. G. E. Johnson, Lincoln, state engr. Noted Jan. 23.

Neb., North Platte—Until Apr. 4, by Lincoln Co., grading 19.2 mi. road from North Platte to Sutherland, 24 ft. wide, involving 102,700 cu.yd. earth excav. and 124 cu.yd. concrete culverts. About $43,000. G. E. Johnson, Lincoln, state engr. Noted Jan. 23.

Neb., Wayne—Until Apr. 16, by Wayne Co., grading 38.2 mi. road from Wayne to Coleridge, 24 ft. wide, in Cedar and Wayne Counties. Work involves 232,000 cu.yd. earth excav. and 318 cu.yd. rein.-con. culverts. About $105,000. G. E. Johnson, Lincoln, state engr. Noted Jan. 23.

N. D., La Moure—Until Apr. 12, by La-Moure Co. building 4.79 mi. gravel road, Federal Aid Project No. 31. About $29,000.

N. D., Wahpeton—Until Apr. 7, by city paving, curbing and guttering 8th St. from north line Dakota Ave. to north line Ohio Ave., Wisconsin, Pembina, Michigan, Delaware and Ohio Aves. from west line 7th St. to east line 8th St. and from west line 8th St. to east of alley running north and south between 8th and 7th Sts.; 6th St. from main line of Northern Pacific, Ry. to south line of Dakota Ave., and from north line Dakota Ave. to north line of blocks 14 and 15 of R. S. Tyler's addition; Wisconsin, Pembina, Michigan, Delaware, Ohio, Montana and Washington Aves. from center of alley runing north and south between 5th and 6th Sts. to east line of 6th St. and from west line of 6th St. to east line of 7th St. Noted Feb. 6.

Mont., Harlowton—Until Apr. 8, by Comrs. Wheatland Co., for miscellaneous road work, involving 40,000 cu.yd. common excav. About $14,000. C. C. Jewell, Harlowton, engr.

Ark., Harrisburg—Until Apr. 2, by Bd. Comrs. Rd. Impvt. Dist. No. 4, Poinsett Co., at office of W. R. Heagler & Sons, Harrisburg, clearing 43.4 acres, grubbing 39 acres, furnishing and placing 797 lin. ft. 12 in. corrugated iron pipe, 7 cu.yd. rein.-con. in abutments, 75 cu.yd. rein.-con. in culverts, 71.5 cu.yd. plain concrete end walls for pipe, 742 lin.ft. wood and pile bridges, 6840 ft. B.M. reflooring old steel bridges, moving one 25 ft. steel span about 25 ft. to line, 97,000 cu.yd. excav. for roadway and ditches, furnish gravel and clay binder, haul, roll and finish hard surface on 16.38 mi. road.

Ark., Jonesboro—Until Apr. 3, by Bd. Comrs. Jonesboro-Nottleton Rd. Impvt. Dist. No. 4, Craighead Co., paving and grading 9 mi. road involving 27,800 cu.yd. grading, average haul not exceeding 500 ft., 78,100 sq.yd. asphaltic paving, 335 lin.ft. vitr. pipe culverts, 18 in. diam., 235 lin.ft. vitr. pipe culverts, 24 in. diam., 553 cu.yd. concrete in culverts and headwalls. V. C. Kays, secy. bd. comrs. Klyce & Kackley, 721 4th and 1st Natl. Bank Bldg., Nashville, Tenn., engrs.

Okla., Eufaula—Until Mar. 31, by city, paving various streets with concrete. About $135,000. Hughes Eng. Co., Bank of Commerce Bldg., Tulsa, engrs.

Colorado—Until Apr. 7, by State Highway Comn., Denver, building State Highway No. 26, between Apache Creek, via Walsenburg and Trinidad, to Raton Pass; advertised in this issue.

Nevada—Until Apr. 10, by State Highway Dept., Carson City, building 12.46 mi. Route 2, Sect. C-1 of state highway between Robinson Summit and Keystone, White Pine Co. Project involves 33,500 cu.yd. excav., 38,800 sq.yd. 5 in. gravel surface, 27,000 sq.yd. 5 in. crushed rock surface, 58 cu.yd. Class "B" concrete, 1562 lin.ft. 15, 18 and 30 in. corrugated metal pipe, etc.; about $58,042. Also 18.73 mi. Route 1, Sect. A-1 of state highway between Vivian and Elko Co., involving 51,300 cu.yd. excav., 55,060 sq.yd. gravel surface, 54,820 sq.yd. broken shale, 160 cu.yd. Class "A" and 100 cu.yd. Class "B" concrete, 2064 lin.ft. 15, 18, 24 and 30 in. corrugated metal pipe, etc., about $89,151.

Wash., Davenport—Until Apr. 8, by Comrs. Lincoln Co., grading 1⅞ mi. county road near Almira, involving 6409 cu.yd. earth, 1079 cu.yd. solid rock and 4906 cu.yd. loose rock excav. J. L. Thayer, co. engr.

Que., North Hatley—Until Apr. 1, by I. B. LeBaron mayor, repaving with tarvia 1½ mi. main road, 50 ft. wide. Noted Aug. 8.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Dept. Pub. Wks. let contract paving 1076 ft. Bayswater St., 40-50 ft. wide, to J. Doherty, c/o Doherty Bros., Stoneham, $22,720. Work involves 3780 sq.yd. asphalt on 6 in. base, 2019 lin.ft. concrete curbing, 9480 lin.ft. sidewalk, 880 cu.yd. excav. and 2000 cu.yd. fill.

★**Mass., West Roxbury** (Boston P. O.)—Dept. Pub. Wks. let contract grading, excavating and filling Center St. and Belgrade Ave., to J. Kelly, 280 Columbia Rd., Roxbury. About $20,110. Work involves 2600 cu.yd. earth excav. and 15,000 cu.yd. fill.

Rhode Island — State Bd. Pub. Rds., State House, Providence, received bids rebuilding 1.15 mi. Boston Neck Rd., 18 ft. wide, Narragansett Twp., from B. Perini, Ashland, Mass., $23,902; C. S. Towle, Wakefield, $25,602; J. Bristow, Narragansett Pier, $26,171. Noted Mar. 13.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received bids Mar. 19, regulating and repaving, permanent asphalt, etc., roadway of (1) Engert Ave., (2) Grove St., (3) Jerome Ave. (4) Knickerbocker Ave., (5) Ridge Blvd., (6) Saratoga Ave. (7) St. Johns Pl. (8) 23rd St. (9) 85th St. (10) 54th St., from Sicilian Asphalt Paving Co., 41 Park Row, New York City, (1) $3588 (2) $10,440 (4) $2004 (5) $30,154 (6) $3692 (7) $11,171 (8) $6372 (10) $1742; Uvalde Paving Co., Metropolitan Ave., (1) $4130 (2) $11,179 (4) $2002 (5) $29,820 (6) $4111 (7) $12,116 (8) $7102 (10) $7851; Grimm Constr. Co., 460 Herold Ave., Richmond Hill, (3) $1276; Cranford Co., 52-9th St.,, (5) $30,173 (6) $3908 (7) $11,396 (8) $6558 (9) $2375; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (5) $30,242 (8) $6299; (10) $7789; Borough Asphalt Co., 1301 Metropolitan Ave., (9) $2165 (10) $7619. Noted Mar. 13.

★**N. Y., Long Island**—M. E. Connolly, pres. Queens Boro., let contract regulating, grading, curbing, paving, etc., with bituminous macadam, 87th St. from 80th to 85th Sts. and 87th St. from 78th to 80th Sts., to Peace Bros., 20 Main St., Flushing, $6492 and $1615 respectively; Skillman Ave. from 3rd to 5th Sts., to F. J. Clancy, $3595; Mount St. from Hunterspoint to Thompson Aves., to Welsh Bros., 39 Queens Blvd., $1388; Gamma Pl. from Suburban St. to Myrtle Ave., to C. A. Myers, foot of Stagg St., Brooklyn, $1905; 85th St. from 83rd to 91st Sts., to Savero & Britton, $8401; Sanford Ave., to T. F. Tuohy, 98 Main St., Flushing, $149; Hill side Ave. from Morris to Metropolitan Aves., to T. Welsh, 39 Queens Blvd., $1278 Noted Mar. 13.

Streets and Roads (Continued)

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids Mar. 24, regulating and repaving, granite block pavement on concrete foundation, roadway of 2nd Ave., from Asphalt Constr. Co., 2197 Madison Ave., $16,570; P. J. Kerns, New York City, $179,997; Worth St. from W. J. Fitzgerald, 547 West 45th St., $32,231; O'Rourke Contg. Co., 150 Nassau St., $33,-186; Cedar St., from Uvalde Asphalt Paving Co., 1 Bway., $3438; Asphalt Constr. Co., 2197 Madison Ave., $3966; 28th St., from O'Rourke Contg. Co., 150 Nassau St., $42,868; P. J. Kelly, $43,343; Dykeman St., from Burnside Contg. Co., 270 Burnside Ave., $10,422; P. J. Kerns, $11,624. Noted Mar. 20.

N. Y., Utica—Bd. Contr. & Supply received bids Mar. 19, (1) resurfacing John St. from Mary to Rutger Sts., (2) 2nd St. from Mary to Rutger Sts., (3) repairing asphalt pavements on various streets, from H. W. Roberts, 610 Lansing St., (1) sheet asphalt $11,086, bitulithic, $11,358, asphaltic concrete, $10,569, (2) sheet asphalt, $11,091, bitulithic, $11,366, asphaltic concrete, $10,568, (3) $13,563. Noted Mar. 20.

★**N. J., Salem**—Bd. Freeholders Salem Co. let contract paving Sects. 4 and 5 of Pennsgrove-Malaga State Rd., concrete, to Sutton & Corson, Ocean City, $163,314. Noted Feb. 27.

Pennsylvania—State Highway Comn., Capitol, Harrisburg, received bids Mar. 20 building roads as follows: (a) Adams Co., (b) Berks Co., (c) Clarion Co., (d) Clinton Co., (e) Delaware Co., (f) Elk Co., (g) Erie Co., Springfield Twp., (h) Harbor Creek and Northeast Twps., (i) Fairview and Girard Twps., (j) Fayette Co., (k) Greene Co., (l) Lancaster Co., (m) Lawrence Co., (n) Lehigh Co., (o) Monroe Co., (p) Tioga Co., (q) Warren Co., from M. Bennett & Sons, Indiana, (a) $182,230 (d) $129,656; Christhilf & Janin, Baltimore, Md., (a) $220,312; Mason & Hanger, Chambersburg, (a) $231,346; Eastern Paving Co., Colonial Trust Bldg., Phila., (b) $53,809, (e) $69,538; Union Paving Co., 30th and Locust Sts., Phila., (b) $66,577, (d) $118,168; McInerney & McNeal, North Natl. Bank Bldg., Easton, (b) $68,984; J. Duncan, George & Boggs, Clarion, (c) $27,-238; J. E. Trunk, Clarion, (c) $27,430; Busch & Stewart, Trust Bldg., Williamsport, (d) $113,463; D. E. O'Connell & Sons, Noorwood, (e) $74,415; Gillespie & Co., Oak View, (e) $82,239; Foundation Co., 233 Bway., New York City, (f) $53,685, (o) $141,627, (q) $204,714; L. H. Gipp, Buffalo, N. Y., (f) $55,330; Lynch Constr. Co., Wilmington, Del., (f) $76,878; Natl. Highway Constr. Co., Erie, (g) $54,003, (i) 99,213; Baldwin & Welcomer, Union City, (g) $57,773; Mayer-Blair Constr. Co., Erie, (g) $54,439, (l) $101,649; Griff Constr. Co., Erie, (h) $162,598; Constantine Constr. Co., 240 Dewey Ave., Buffalo, N. Y., (h) $162,871; J. McCormick & Bros., 717 West 11th St., Erie, (h) $167,612; C. H. Frey Contg. Co., Erie, (i) $104,543; Reagan & Lynch, Uniontown, (j) $242,835; Brook & Cornish, Uniontown, (j) $294,400; Dravo Contg. Co., Diamond Bank Bldg., Pittsburgh (j) $299,358; Con. Oil Tank Co., Pittsburgh, (k) $325,490; J. I. Dick, Scottdale, $372,860; Raymond Concrete Pile Co., 90 West St., New York City, (k) $375,378; Sauder Constr. Co., Lancaster, (l) $40,483; J. M. Eshelman, Landisville, (l) $42,507; Juanita Co., Phila., (l) $43,-426; Burns Bros., 525 South Mill St., Newcastle, (m) $38,801; Woods & Golder Constr. Co., Mechanic St., New Castle, Constr. Co., Mechanic St., Newcastle, (m) $40,931, P. F. Connolly, Koppel, (m) $45,102; Blaisdell Contg. & Eng. Corp., 238 Spencer St., Brooklyn, N. Y., (n) $240,102; G. H. Hardner, Lentz Bldg., Allentown, $253,770; L. M. Kratz & Son, Allentown, (n) $260,616; O'Brien Bros., Avoca, (o) $155,957; B. G. Coon, Luzerne, (o) $156,865; R. G. De Long, Williamsport, (p) $72,816; G. Serafino & Stento, Binghamton, N. Y., (p) $75,164; Horn & Devling, Main St., Galeton, (p) $84,652; E. T. Beck, Warren, (q) $203, 806; Dale Eng. & Constr. Co., Mann Bldg., Utica, N. Y., (q) $214,729; L. S. Sadler, state highway comr. Noted Mar. 6.

★**Md., Baltimore**—Bd. Awards let contract improving Boone, 21st, 23rd, 20th, Barclay and Oak Sts., Homewood and Guilford Aves., to Amer. Paving & Contg. Co., Montebello Ave. and Jenkins Lane, $136,-800; Atlantic, Erdman, Dobler and Lake Aves. and Lake Dr. around Lake Montebello, to Union Co., 3723 Park Heights Ave., $2 per sq.yd., total, $32,143. Noted Mar. 13.

★**Md., Baltimore**—Bd. Awards let contract to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., grading, curbing and paving, sheet asphalt, vitr. brick and granite block redressed, McElderry, Madison, Jefferson and Orleans Sts., Collington and Lakewood Aves., $143,110; various sections of streets in city's old annex involving 15,000 sq.yd. sheet asphalt paving 20,000 sq.yd. sheet asphalt topping, 3000 sq.yd. vitr. brick gutters, 14,000 lin.ft. stone curbing reset and redressed and 4000 lin.ft. armored concrete curbing, $106,000; to Baltimore Asphalt Block & Tile Co., Monroe and Lorman Sts., grading, paving with sheet asphalt, vitr. block, granite block, redressed, wood block, all on concrete base, Lafayette Ave., Lanvale and Payson Sts., $138,547; Edmondson, Clinton and Argyle Aves., and Brune St., $52,552; Amer. Paving & Contg. Co., Montebello Ave. and Jenkins Lane, grading, curbing and paving, sheet asphalt, on Randall, William, Covington, Clement, Grindall and Poultney Sts., and Battery Ave., $127,053; Barclay, Forrest and Somerset St., Brentwood and Ashland Aves., $71,568; P. Reddington & Sons, 2 East Lexington St., paving with cement concrete, vitr. block and wood block, cement concrete base, on Brexton St., Jordean and Camel Alleys, $19,940. Noted Feb. 27.

★**W. Va., Fayetteville**—Comrs. Fayette Co. let contract building 6.3 mi. concrete road, 9 ft. wide, from Thurmond to Glen Jean, to Charleston Concrete Constr. Co., Charleston, cost $38,328; 6 mi. road, 14 ft. wide, from Montgomery to Falls View, to A. Keathly, Huntington, $96,753; 5 mi. road, 14 ft. wide, from Falls View to Gauley River, to W. T. Jones Co., 212 10th St., Lynchburg, Va., $93,590.

★**W. Va., Ripley**—Comrs. Jackson Co. let contract building 2 mi. concrete road, 14 ft. wide, to Cisler & Morse, Marietta, Ohio. About $57,500. Noted Mar. 13.

★**Ga., Atlanta**—Comrs. Rds. & Revenues, Fulton Co., let contract paving Gordon St. and Cascade Ave., involving 30,000 sq.yd. vibrolithic to F. W. Long & Co., 434 East Bay St., Jacksonville, Fla., $2.98 per sq.yd.; Haperville Rd., involving 26,000 sq.yd. concrete, to Brooks-Colloway Co., 42 South Forsythe St., $2.45 per sq.yd.; Paces Ferry Rd., involving 34,000 sq.yd. bitulithic on old macadam, to Jamison-Hallowell, Atlanta, $2.50 per sq.yd. Noted Feb. 27.

★**Ga., Augusta**—Comrs. Richmond Co. let contract paving 2 mi. road with Texas Standard Oil asphalt, to Ely Constr. Co., Lamar Bldg. About $1.45 per sq.yd. Noted Feb. 20.

★**Ala., Athens**—Town let contract paving various streets, to J. W. Black, Columbia, cost, $152,000; curbing to F. Nicholson, Columbia, $6000.

★**Ala., Selma**—Bd. Revenue Dallas Co. received no bids building and resurfacing with gravel about 15 mi. Benton Rd. between here and Safford. Work will be done by day labor. Noted Feb. 27.

★**Miss., Tunica** — Bd. Supervs. Tunica Co., let contract grading and graveling 12 mi. road in Special Road Dist. No. 1, to Dawson Contg. Co., Tunica. About $65,000. Noted Mar. 6.

★**La., Columbia**—Comrs. Caldwell Parish let contract building 15 mi. graveled highway, to C. A. Reese, Columbia. About $65,000.

★**La., Thibodaux**—Lafourche Parish Police Jury let contract building hard surfaced roads in Dist. Nos. 2 and 3, to Weber & Wild, New Orleans, $86,260 and $50,630 respectively. Noted Mar. 6.

★**Ky., Louisville**—Bd. Pub. Wks. let contract (1) paving 7 blocks Burnett, Hoertz, Brock and 34th Sts., asphalt, (2) grading and paving Breckenridge St. from Barrett to Dupuy, involving 520 sq.yd. vitr. brick, 4120 sq.yd. asphalt, 4640 sq.yd. concrete, 1400 cu.yd. earth excav., (3) Bank St. between 25th and 26th Sts., 260 sq.yd. granite blocks, 1000 cu.yd. grading, 2313 sq.yd. asphalt, 360 sq.yd. brick block, 2930 sq.yd. 6 in. concrete base, (4) Walnut, Ormsby, Zane and 5th Sts., asphalt (5) 13th St. from Market to Jefferson Sts., 1880 sq.yd. granite block, on 6 in. concrete base, 800 cu.yd. grading (6) 15th St. from Main to Jefferson Sts., 3700 sq.yd. granite block on 6 in. concrete base, 1500 cu.yd. grading, to Louisville Asphalt Co., 305 Realty Bldg., (1) $45,119, (2) $14,605, (3) $10,869; H. Bickel Co., 443 Garden St., (4) $41,948, R. W. Burke, 319 West Jefferson St., (5) $578, (6) $11,515.

O. Columbus—Comrs. Franklin Co. received bids resurfacing 237 mi. highway, from Barret Co., Cleveland; and Atlantic Refining Co., 3144 Passyunk St., Phila. About $304,000.

Mich., Detroit—Dept. Pub. Wks. received bids paving (a) Sheridan Ave.; (b) Crane Ave.; (c) Charlevoix Ave.; (d) Beals Ave.; (e) Davison Ave.; (f) Newport Ave.; (g) Canfield Ave.; (h) Linden St.; (i) Barker St.; (j) Roby St. from W. B. Brady Constr. Co., 1972 Grand River Ave., (a) $54,307; (b) $25,111; (c) $27,844; (d) $20,709; (e) $15,623; (f) $13,289; (g) $8249; (h) $7842; (i) $6204; (j) $3990.

Cleveland Trinidad Paving Co., 2940 Woodward Ave., (a) $59,290; (b) $25,616; (c) $26,795; (d) $20,813; (e) $15,165; (f) $12,724; (g) $8245; (h) $7851; (i) $6239; (j) $4044.

Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $53,647; (b) $25,473; (c) $26,-186; (d) $20,455; (e) $15,549; (f) $12,391; (g) $8170; (h) $7755; (i) $6158; (j) $4128. Noted Mar. 13.

★**Ia., Davenport**—City let contract to McCarthy Impvt. Co., 220½ Main St., for 1577 ft. Hancock Ave., cost $12,467; 1240 ft. Scott St., $11,198; 2385 ft. Taney St., $20,-638; 1325 ft. Hayes St., $11,600; 727 ft. Grant and 3rd Sts., $11,528; 1092 ft. Bowditch and Lombard Sts., $10,210; 680 ft. Fair Ave. and Myrtle St., $11,326; 929 ft. Claussen and East 2nd Sts., $10,063; 3903 ft. Telegraph Rd., $33,413; 2314 ft. Union St., $24,386; 2700 ft. Clark St., $30,639; 2810 ft. McKinley Ave., $33,179; 1577 ft. Hancock Ave., $3364; 820 ft. Myrtle St., $2754; 345 ft. Western Ave., $4312; to D. J. Ryan Constr Co., 41 1st Natl. Bank Bldg., for 1821 ft. Grand Court, $26,084; 2178 ft. Grand Ave., $23,293; 1239 ft. High St. and Carey Ave., $12,407; 1082 ft. Le Clair St., $12,018; 2232 ft. Locust St., $23,-559; 2219 ft. Eastern Ave., $16,317; 220 ft. 8th St., $2213. Noted Feb. 27.

★**Minn., Tracy**—City let contract for 17,-000 sq.yd. paving and 9000 lin.ft. curbing to Hanlon & Okes, 338 Lumber Exch., Minneapolis, $1.78 per sq.yd. for paving.

Mo., St. Louis—Bd. Pub. Serv. received bids paving Clarence and Kossuth Aves from Trinidad Asphalt Paving Co., Title Guaranty Bldg., $10,142 and $11,034 respectively; Kennerly and Ruskin Aves., from Granite Bituminous Paving Co., Ry. Exch Bldg., $22,541 and $25,246 respectively; Dock St., from J. F. McMahon Constr. Co. Title Guaranty Bldg. $5456; Lucas Ave. and Juniata St. from Eyerman Constr. Co., 1216 South Grand St., $5585 and $6378 respectively; McPherson Ave., from Heman Constr. Co., Title Guaranty Trust Bldg., $5944; Cupples Pl., from Skrainka Constr. Co., Security Bldg., $6759; Allemania St., from J. C. Steffen, 4760 Seibert St., $8324; Lafayette Ave., from A. Fleschner, $7055 Winona Ave., $4260; and 19th St., from J. E. Perkinson, 3237 Carter St., $3277. Noted Feb. 13.

★**Utah, Salt Lake City**—Comrs. Salt Lake Co. will grade and surface 3½ mi. Wasatch-Bonneville Blvd., 24 ft. wide, $15,000; also build 10 mi. west side Wasatch Blvd., 24 ft. wide, $45,000. Work will be done by day labor.

★**Wash., Davenport**—Lincoln Co. let contract grading and graveling 4 mi. North Central Highway between Lamona and Downs, to Genl. Constr. Co., North 1324 Elm St., Spokane, $21,083; graveling 5 mi. Sunset Highway, west of Wilbur, to J. Sengfelder and O. J. Long, Spokane, $11,260.

★**Wash., Ephrata**—Grant Co. let contract grading and graveling 8 mi. Permanent Highway 13, from Burke to Vantage Ferry on Sunset Highway, to Mahr Constr. Co., Waterville, $26,738. Work involves 10,743 cu.yd. gravel, 8500 cu.yd. earth excav. and 80 cu.yd. road excav.

★**Wash., Port Orchard**—Kitsap Co. let contract grading and surfacing 1¼ mi. State Aid Rd. No. 1-C, also building 1000 ft. of sea wall, to Erickson Constr. Co., Downs Bldg., Seattle, $27,800.

Wash., Seattle—Bd. Pub. Wks. received bids Mar. 14 (1) laying concrete sidewalks on Belvidere Ave., et al, involving 11,310 sq.yd. concrete, (2) Orcas St., et al, 11,804 sq.yd. concrete, 720 sq.yd. cross walks,

Streets and Roads (Continued)

2000 cu.yd. earth excav., from D. H. Traphagen, Walker Bldg., (1) $21,395; (2) $31,445; P. H. Johnson, Builders Exch., (1) $21,534; Fiorito Bros., 1630 25th Ave. (1) $22,650; (2) $31,445; Coluccio & Lupis, 1642 Lane St., (2) $34,879.

★**Wash., Seattle**—Bd. Pub. Wks. let contract grading ¼ mi. Holyoke Way, 40 ft. wide, to H. Pederson, Alaska Bldg., $16,920. Noted Mar. 20.

Wash., Seattle—Bd. Pub. Wks. received bids Mar. 14, building 1100 ft. timbered trestle roadway, 23 ft. wide, 5 ft. sidewalks, Northlake Ave. connection to approach to Eastlake bridge, from J. A. McEachern Co., Bell St. Dock, $34,097; Hansen & Hauge, Genl. Delivery, $35,767; R. A. Wood, 4747 Latona Ave., $37,546. Work involves 45,449 ft. truss timber, 3380 lin.ft. creosoted piles, 59,875 ft. creosoted lumber, 358,034 ft. miscellaneous lumber, peeled piling and creosoted piles.

Ore., Portland—Bd. Pub. Wks. received only bids from Warren Constr. Co., Journal Bldg., improving East 16th St., gravel bitulithic pavement, $9567; East Oak St., gravel bitulithic pavement, $1762. Noted Feb. 27.

★**California** — State Highway Comn., Sacramento, will build 1½ mi. road, 15 ft. wide, 4 in. concrete base, through Rocklin Twp. in Placer Co. About $18,000. Work will be done by day labor. Project involves 3200 cu.yd. grading.

★**Cal., Los Angeles**—Los Angeles Co. will pave 17 mi. Ridge Route, northeast of Sangus, 16 ft. wide, concrete. About $300,000. Work will be done by day labor under direction of W. W. Patch, div. engr. and J. C. Beckjord, supt.

★**Cal., San Francisco**—City let contract improving Parker Ave. from St. Roses Ave. to McAllister St., to Blanchard, Crocker & Howell, San Francisco, $31,553.

Cal., Stockton—City received bid paving portion of East St., from C. Moering, Stockton. About $10,532.

★**Que., Chambly** — Town let contract paving 8.3554 mi. road in Chambly Parish, 14 and 22 ft. wide, macadam, to Province Bldg. & Engr. Co., 920 Power Bldg., Montreal. About $200,722.

★**Que., St. Barnabe**—Town let contract graveling 7.255 mi. roads, 16, 18 and 20 ft. wide, to A. Carrier, Valmont. About $41,500.

Railways

PROPOSED WORK

New York—See "Industrial Works, Clayton."

BIDS DESIRED

Pennsylvania—Until Apr. 8, by W. S. Twining, dir. dept. city transit, Mershon Bldg., 1211 Chestnut St., Phila., building first 4 sections of Frankford, Bustleton and Byberry Surface Passenger Railway from Frankford to Bustleton, 6 mi. long, Contr. No. 701. Work includes grading, furnishing and laying track and construction of 504 ft. steel viaduct. Project involves 15,900 lin.ft. individual track of girder rail type with granite block paving and about 32,200 lin.ft. indivdual track of "T" rail type with ballast; advertised in this issue.

Excavation and Dredging

PROPOSED WORK

N. Y., Buffalo—Rock Removal, etc.—City plans to remove rock in Niagara River channel, foot of Ohio St. and dredge channel to depth of 23 ft. A. W. Kreinheder, comr. pub. wks.

Miss., Avalon—Canal—Patacowa Creek D. D. plans to build drainage canals involving 461,500 cu.yd. dragline excav. and 6 acres clearing. About $70,000. Morgan Eng. Co., Goodwyn Institute Bldg., Memphis, Tenn., engrs.

Mont., Columbus—Irrigation—Columbus Irrigation Dist., Stillwater Co., being organized to irrigate 1288 acres by diverting water from Yellowstone River.

Ark., Harrisburg—Channel—D. D. No. 7, Poinsett Co., rejected bids building 22 mi. channel, 30-50 ft. base, to intercept flood water from hills on west of district, involving 1,670,000 yd. floating dredgework. Pride & Fairley, Blytheville, engrs. Noted Feb. 27.

Ore., Madras—Irrigation—North Unit Irrigation Dist. voted $5,000,000 bonds to irrigate 100,000 acres land near here.

Ore., Medford—Irrigation—P. A. Cupper, state engr., making surveys in Medford Irrigation Dist. comprising 20,000 acres. Project includes diverting water from Big Butte Creek. Rogue River, Gold Hill and Talent Dists. will also be surveyed. About $1,500,000. Noted Oct. 17.

BIDS DESIRED

N. J., Trenton—Dredging—Until Apr. 15, by Bd. Commerce & Navigation, State House, dredging section of proposed inland waterway connecting Barnegat Bay with Manasquan River. About $25,000. V. Gelineau, dir.; advertised in this issue.

Ky., Frankfort — Excavation — See "Streets and Roads."

Wis., Elkhorn—Excavation—See "Streets and Roads."

Wis., Port Washington—Excavation—See "Streets and Roads."

Wis., Richland Center—Excavation—See "Streets and Roads."

Nevada—Excavation—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

★Indicates award of contract

★**N. Y., Rochester**—Barge Canal Works—L. Nixon, supt. pub. wks., let contract completing canal from Kings Bend to Lehigh Valley R.R. crossing here, Contr. 190, to Empire Eng. Co., Inc., 60 Church St., New York City, $245,191. Noted Mar. 13.

★**Ga., Marietta**—Canal—Powder Springs Creek Dist. No. 2, Cobb Co., let contract building 10½ mi. drainage canal 8 ft. deep, involving 279,851 cu.yd. excav., to Morris Constr. Co., Marietta. About $0.11 per cu.yd.

Ia., Dakota City—Ditch—City received lowest bid furnishing material and labor building D. D. No. 6, involving 615,000 cu. yd. earth excav. and 49,282 ft. 12-42 in. tile from E. L. Hatton, Britt, at $11.45 per yd.

Industrial Works

PROPOSED WORK

N. H., Lakeport—Scott & Williams, 366 Rway., New York City, having plans prepared by Lockwood, Greene & Co., archts., 60 Federal St., Boston, building 5 story, 60 x 200 ft. steel and rein.-con. factory, rein.-con. flooring and concrete foundation, here.

Mass., Charlestown (Boston P. O.) — Blackall, Clapp & Whittemore, archts., 20 Beacon St., receive bids about Apr. 1, building 8 story, 63 x 83 ft. brick and concrete storehouse, rein.-con. flooring and concrete foundation, on Rutherford Ave. for Boston Post, Boston.

Mass., New Bedford—W. C. Jones Co., Nash Rd., having plans prepared by T. M. James, archt., 185 Devonshire St., Boston, building 1 story, 101 x 200 ft. brick warehouse, concrete flooring. About $50,000.

R. I., Providence—B. S. D. Martin, archt., 86 Weybosset St., soon receives bids building 2 story, 70 x 90 ft. mill construction garage, rein.-con. flooring and concrete foundation on Smith and Orms Sts. for F. A. Becker Co., 390 Smith St. About $30,000.

Conn., New Haven—Ryders Printing House, 78 Center St., receives bids in April building 3 story, 40 x 105 ft. brick addition to printing plant, concrete foundation, on Chapel and James Sts. About $35,000. F. E. Brown, 11 Autumn St., archt.

Conn., Stamford—H. and H. Fdry., 770 Pacific St., rejected bids building 1 story, 60 x 200 ft. brick foundry, rein.-con. flooring and concrete foundation, on Pacific St. About $30,000. Project indefinitely postponed. N. E. Emmons, Washington Bldg., archt. Noted Mar. 6.

Conn., Stratford (Bridgeport P. O.)—Raybestos Co., Bostwick Ave., Bridgeport, plans to build 1 story, 160 x 170 ft. brick, steel and concrete addition to factory, rein.-con. flooring, concrete foundation on East Main St. here. About $100,000.

N. Y., Brooklyn—L. W. Boynton, 1183 Fulton St., soon receives bids building 1 story, 85 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 32-38 Schnectady Ave. About $30,000. S. Millman & Son, 26 Court St., archts.

N. Y., Clayton—St. Lawrence River Motor & Mchy. Co. purchased site on river front and having plans prepared for machine shop, garage and marine railway.

N. Y., New York—New York Central R.R., Grand Central Terminal, soon receives bids building 1-story, 35 x 180 ft. brick and steel garage and warehouse, rein.-con. flooring and concrete foundation, on Webster Ave., near Claremont Pkway., Bronx. About $75,000. Ewing & Allen, 101 Park Ave., archts. Central Fdry. Co., 90 West St., lessee.

N. Y., New York—Wendell Estate, 175 Bway., soon receives bids building 3 story, 90 x 100 ft., brick and rein.-con. garage, rein.-con. flooring, concrete foundation, at 142-148 West 39th St. About $30,000. J. B. Snooks Sons, 261 Bway., archts.

N. Y., Niagara Falls—Willys-Overland Co., 1294 Main St., Buffalo, purchased 26 acre site on Sugar and Lockport Sts., here, and plans to build tractor plow factory.

N. Y., Westfield—J. Kling, Maysville, plans to build 1 story, 64 x 540 ft., brick and timber factory here. About $43,000.

Md., Baltimore—City Baking Co., 500 Equitable Bldg., rejected all bids received Mar. 5, building 4 story, 58 x 143 ft., rein.-con., steel and brick addition to bakery, rein.-con. flooring, concrete and rock foundation on North Gay St. About $50,000 new bids in April. J. Freund, Jr., archt., 16 East Biddle St., revising plans. Noted Feb. 20.

Fla., Jacksonville—J. C. Helsema Co., 9th St., soon lets contract rebuilding 1-story, 100 x 200 ft. frame mill on 8th and 9th Sts. Cost between $75,000 and $100,000.

Ia., Davenport—Ewert & Richter Express & Storage Co., 320 East 4th St., soon receives bids building 8 story, 128 x 150 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation on 5th and Iowa Sts. About $200,000. Clausen & Kruse, 316 Central Office Bldg., archts.

Ia., Marshalltown—City election Mar. 31, to vote on $400,000 bonds to build electric light plant.

Minn., East Grand Forks—Farmers Potato & Grain Assn., Grand Forks., N. D., having plans prepared for potato warehouse here. About $50,000.

Kan., Sharon Springs—City plans election to vote on $40,000 bonds to improve electric light and water-works systems. Plans include new power house and installation of one 150 hp. and one 100 hp. engines, 75 gal. standpipe, etc.

Kan., Topeka—State had plans prepared for 25 x 150 ft. addition to State Printing plant on 10th and Jackson Sts., here. About $40,000. R. L. Gamble, Topeka, state archt. Noted Feb. 6.

Neb., Omaha—See "Buildings."

Neb., Omaha—E. L. Means, Orleans, having plans prepared by J. Latenser & Sons, archts., 632 Bee Bldg., for 6-story, 99 x 120 ft. rein.-con. warehouse, on 11th and Dodge Sts., here. About $100,000.

Neb., Omaha—Skinner Packing Co., 904 1st Natl. Bank Bldg., plans to build 8 story, 99 x 132 ft. cold storage plant, on 12th and Douglas Sts. About $500,000. H. C. Christianson, 7258 Union Ave., Chicago, Ill., engr.

S. D., Madison—City plans election to vote on $125,000 bonds to build electric light plant.

Mont., Wibaux—Eastern Montana Light & Power Co. plans to improve and build additions to plant to supply Wibaux and Glendive also Beach, N. D. H. Zopf, mgr.

Mo., Columbia—See "Buildings."

Mo., Fulton—Westminster College soon receives bids building heating plant on campus. About $25,000. E. E. Reed, pres.

Mo., St. Joseph—City plans election about May 1, to vote on $500,000 bonds to build extension to electric light plant. H. Johnson, city engr.

Mo., St. Louis—University of Missouri plans to build addition to machine shop on campus. About $25,000. A. R. Hill, pres.

Okla., Tahlequah—City plans to build light and power plant. About $65,000.

Utah, Salt Lake—Gen. Reduction & Chemical Co., 23 West 2nd St. S., plans to build acid plant. About $250,000.

Industrial Works (Continued)

Ore., Salem—Crown Willamette Paper Co., West Linn St., Oregon City, and members of O. K. Logging Co., plan to build plant on Trade and Front Sts. here, to consist of various buildings, main structure 80 x 150 ft. About $400,000.

Cal., Atwater—Sunlit Fruit Co. plans to build 1 story, 120 x 175 ft., brick and concrete addition to cannery and packing plant, concrete foundation. About $100,000. Address F. F. Laney, Atwater.

Cal., Colusa—Rosenburg & Bros., 334 California St., San Francisco, having plans prepared by H. Brawnton, archt., 334 California St., for rice mill and warehouse here. About $250,000.

Cal., San Francisco—San Francisco Commercial Co. having plans prepared by McDonald & Kahn, engrs., Rialto Bldg., for 2 story addition to concrete warehouse on Mission St. near 10th St. About $60,000. Goodyear Tire & Rubber Co., lessee.

Cal., Snelling—Bd. Supervs. considering building rock crushing plant near here to supply materials for 125 mi. roads. A. E. Cowell, highway engr.

Ont., Toronto—Willard Chocolate Co., 143 Wellington St., having plans prepared by H. B. Chown, archt., 20 Wayland Ave., building 4 story, 60 x 110 ft. warehouse on Wellington St. About $80,000.

BIDS DESIRED

Conn., Hartford—Until Apr. 7, by Bd. Water Comrs., building 2 story, 29 x 153 ft. brick and concrete garage and office on Union St. Former bids rejected. C. M. Saville, 1026 Main St., ch. engr. Noted Oct. 10, 1918.

N. Y., Brooklyn—Until Apr. 7 (change of date) by Magid Katzman & Strober, 58 Boerum Pl., building 1-story, 100 x 165 ft. steel and brick warehouse, garage and workshop, rein.-con. flooring, concrete foundation, on Jefferson St., Wykoff and Flushing Aves. About $50,000. H. J. Nurick, 957 Bway, archt. Noted Feb. 20.

N. Y., Brooklyn—Until Apr. 14 (change of date) by H. J. Nurick, archt., 957 Bway., building 2-story, 120 x 160 ft. brick and steel garage, warehouse and work shop, rein.-con. flooring, concrete foundation, on Varick Ave. and Meserole St., for J. H. Werbelovsky, 83 Meserole St. About $50,000. Noted Feb. 20.

Va., Richmond—Until Apr. 5, by H. T. Barnham, archt., 509 Chamber of Commerce Bldg., for 2 story, 60 x 262 ft., brick, steel and rein.-con. garage, for H. T. Nelson & Co., 302 Mutual Bldg. About $80,000.

Ont., Toronto—Until Mar. 29, by Hynes & Watson, archts., 105 Bond St., building 5 story, rein.-con. factory, rein.-con. flooring, concrete foundation, on Richmond St., for Gelber Bros., 217 Richmond St. About $150,000.

Fla., Jacksonville—Virginia Chemical Co., 11 South 12th St., Richmond, Va., is receiving bids for fertilizer plant on Talleyrand Ave., here. About $200,000.

Man., Winnipeg—Until Apr. 16, by Dept. Pub. Wks., Ottawa, Ont., building 1 story, 110 x 122 ft., brick and timber extension to power house and laundry at Military Hospital, Tuxedo, rein.-con. flooring, concrete foundation. About $75,000. R. C. Wright, c/o Dept. Pub. Wks., archt.

B. C., Vancouver—Until Apr. 10, by Gardiner & Mercer, archts., 827 Birks Bldg., building 1 story, 200 x 208 ft. timber factory, including 52 x 56 ft. cleaning room, 24 x 76 ft. warehouse and 1 story office building, concrete foundation, on Industrial Island, for Morrison Steel & Wire Co. About $50,000. Noted Jan. 9.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Bristol**—New Departure Mfg. Co., 269 North Main St., let contract building 1-story, 103 x 283 ft. brick, steel and rein.-con. factory, rein.-con. flooring, concrete foundation, to include 2 story, 30 x 103 ft. concrete fuel tanks, office and laboratory, to Torrington Bldg Co., 197 Water St., Torrington. About $250,000.

★**Conn., Hartford**—Indian Refining Co., 596 Windsor St., will build 1-story, 75 x 90 ft. concrete and timber oil storage plant rein.-con. flooring and concrete foundation, on North Front St. About $35,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Circle Garage Co., 250 Coney Island Ave., will build 1-story, 50 x 200 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Coney Island Ave, and Prospect Pl. W. About $45,000. Work will be done by day labor. Noted Mar. 13.

★**N. Y., Brooklyn**—V. Guardino, 39 Central Ave., will build 1-story, 90 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Central and Forest Aves. About $30,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Slatwell Realty Co., 1404 Pitkin Ave., will build 1 story, 100 x 120 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on 18th Ave. and 86th St. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Smith & Son, 132 East 43rd St., New York City, will build 1 story, 80 x 180 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 373 Park Ave., here. About $35,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. Szczutkowsky, 147 North 6th St., let contract building 1-story, 30 x 100 ft., brick and steel packing plant, rein.-con. flooring, concrete foundation, at 149 North 8th St., to Lustbader Constr. Co., 103 Park Ave., New York City. About $56,000.

★**N. Y., Long Island City** — Factory Constr. Co., 44 Court St., Brooklyn, will build 4 story, 100 x 200 ft., brick and concrete garage, rein..-con flooring, concrete foundation, on North Ave. and the Boulevard. About $350,000. Work will be done by day labor.

★**N. Y., Long Island City**—See "Buildings."

★**N. Y., New York**—Greenwich Development Co., 44 Court St., Brooklyn, will build 1 story, 85 x 140 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 537-549 Broome St. About $125,000. P. Deckman, pres. Work will be done by day labor.

★**N. Y., New York**—Haffen Realty Co., 2804-3rd Ave., will build 1-story, 30 x 130 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Lafayette and Garrison Aves., Bronx. About $30,000. Work will be done by day labor.

★**N. Y., New York**—Newat Building Co., 200 Bway., will build 1 story, brick and concrete bakery and garage, rein.-con. flooring concrete foundation on Boston Rd. and 177th St., Bronx Boro. About $45,000. Work will be done by day labor.

★**Pa., Phila.**—J. J. Felin Co., Inc., 4148 Germantown Ave., let contract building 2-story, 39 x 87 ft. rein.-con., brick and steel packing plant, cement and tile floors, metal ceiling, etc., to H. E. Baton & Co., 1713 Sansom St. About $90,000.

★**Pa., Phila.**—Miller North Broad Storage Co., 2715 North Broad St., let contract building 6-story, 52 x 108 ft. storage warehouse at 5301-03 Germantown Ave., to J. N. Gill & Co., Otis Bldg. About $75,000. Noted Feb. 13.

★**Ia., Davenport**—Tri-City Plate Ice & Cold Storage Co., 1433 West 2nd St., let contract building 1-story, 35 x 55 ft., brick ice plant, concrete foundation, to Vilter Mfg. Co., 872 Clinton St., Milwaukee, Wis. About $50,000.

★**O., Cleveland**—Accurate Machine Co., 1011 Power Bldg., let contract building 2 story, 40 x 160 x 180 ft. brick, steel and rein.-con. factory and office, rein.-con. flooring and concrete foundation on East 134th St. and Court Rd., to Hunkin Conkey Co., 601 Century Bldg. About $250,000.

★**O., Cleveland**—Cleveland Automobile Co., Hollenden Hotel, let contract building 4 story, 82 x 601 ft. brick, steel and rein.-con. factory, rein.-con. flooring and concrete foundation, on Euclid Ave. and London Rd., to Crowell-Lindoff Little Co., 5716 Euclid Ave. About $1,000,000.

★**O., Cleveland**—G. A. Rutherford Co., 1922 East 18th St., will build 2 story 80 x 80 ft. brick and steel warehouse and store, rein.-con. flooring and concrete foundation, at 2729 Prospect Ave. About $75,000. Work will be done by day labor.

★**Ill., Chicago**—Victor Mfg. & Gasket Co., 1956 South Troy St., let contract building two 1-story, 190 x 460 ft. and 25 x 198 ft. and one 2-story, 48 x 125 ft., brick and timber factories, rein.-con. flooring, concrete foundation, with 25 x 25 ft. tower, 60 ft. high, on 12th St. and 58th Ave., to R. F. Nelson & Co., 154 West Randolph St. About $275,000. Noted Dec. 19.

Minn., Mankato—Eckman Bros. received bids building 2-story, 30 x 50 ft. garage, 17 x 40 ft. office, 10 x 15 ft. stockroom and 50 x 88 ft. workshop, rein.-con and brick, from E. Schumacher, $28,971; O. Neitge, $29,017; J. B. Nelson, $30,567. All contractors of Mankato. Noted Mar. 13.

★**Neb., Omaha**—Skinner Packing Co., 904 1st Natl. Bank Bldg., let contract building 6-story, 65 x 65 ft., rein.-con. fertilizer plant, on south side, to Collins Bros., Omaha. About $50,000.

★**Okla., Oklahoma**—Acme Milling Co., 19 West Washington St., let contract rebuilding 3 story, 65 x 160 ft. brick warehouse, to Campbell & Price, 610 Majestic Bldg. About $35,000.

★**Cal., Los Angeles**—Pan Amer. Petroleum Co., Security Bldg., will build brick and concrete oil refinery on 12 acre site in Vernon Industrial Dist. Work will be done by day labor under supervision of T. D. Boyce, engr., Security Bldg. About $250,000. Noted Mar. 20.

Buildings

PROPOSED WORK

R. I., Providence—School—Marshak & Hickey, archts., 310 Strand Bldg., receive bids about Apr. 1, building 3-story, 42 x 60 ft. brick and steel, concrete foundation on Orms St., for Sons of Zion Society, 89 Orms St. About $60,000.

Conn., Bridgeport — Church — Swedish Baptist congregation, plans to build brick church, concrete foundation, on Colorado Ave. About $50,000. A. O. Lawrentes, Colorado Ave., pastor. E. E. Benedict, 51 Leavenworth St., archt.

Conn., Hartford—School—Bd. Educ. having plans prepared by I. A. Allen, archt., 904 Main St., for school on Market St., 1st School Dist. About $250,000. Address H. J. Dillon, 315 Pearl St.

Conn., Middletown—Memorial—City plans to issue $150,000 bonds to construct memorial building. Address Chamber Commerce, 303 Main St.

Conn., New Haven—Hotel—A. L. and I. Adelman, 10 Garden St., receive bids in May building 5 story brick and steel, rein.-con., flooring and concrete foundation on Whaley Ave. About $165,000. J. Weinstein, 6 Church St., archt.

Conn., Norwalk—Business—S. Roodner, Ann St., South Norwalk, receives bids about April for 2 story, 100 x 135 ft. brick, concrete foundation, on Wall St. here. About $75,000.

Conn., Norwich—Hospital—W. W. Backus Hospital, 326 Washington St., plans to construct new building. The late W. A. Slayter donated $100,000 for this project.

Conn., Norwich—School—Norwich Free Academy plans to build school. The late W. A. Slayter donated $100,000 for this project.

Conn., Stamford—Theater and Office—A. Spelke, 443 Atlantic St., purchased site on Main St. and plans to build 2 story, 56 x 175 ft. About $125,000.

Conn., Stratford (Bridgeport P. O.)—Theater, Store and Office—O. Christensen, 929 Main St., Bridgeport, having plans prepared by F. H. Beckwith, archt., Post Office Arcade, Bridgeport, for 2 story brick, concrete flooring and foundation on Main St. here. About $50,000.

Conn., Torrington—Theater—H. Quittner, c/o W. E. Hunt, archt., 182 South Main St., having plans prepared for brick and concrete theater, rein.-con. flooring and concrete foundation, on East Main St. About $90,000.

N. Y., Brooklyn—Theater—Miller-Weissman Amusement Co., c/o Shampan & Shampan, archts., 772 Bway., soon receives bids building 1 story, 75 x 100 ft., brick and steel, concrete foundation on Manhattan Ave. and Eagle St. About $80,000.

N. Y., Brooklyn—Theater—St. Marks Amusement Co., 285 Flatbush Ave., soon receives bids building 1 story, brick and terra cotta, concrete foundation. About $150,000. Careon & Wiseman, 220 Henry St., archts.

N. Y., Buffalo—Jewelry Establishment—T. and E. Dickinson & Co., 472 Main St., plans to build 15 story 48 x 115 ft., store and jewelry establishment at 618 Main St. About $170,000.

N. Y., Buffalo—Stadium—City Council approved petition for building memorial stadium with 35,000 seating capacity.

Buildings (Continued)

N. Y., Carthage—School—Bd. Educ. considering erection of central high school and memorial community center.

N. Y., Long Island City—School—Bd. Educ., 500 Park Ave., New York City, soon receives bids building P. S. No. 3, 3 story, 105 x 108 ft., brick and steel, concrete foundation, on Colonial Ave., between Livingston and Meteor Sts., here. About $200,000. C. B. J. Snyder, Municipal Bldg., New York City, archt. Noted Jan. 16.

N. Y., New York—Office—60 Wall St. Corp. soon receives bids building 15-story addition. About $100,000. Clinton & Russell, 32 Liberty St., archts.

N. Y., New York—School—Bd. Educ., 500 Park Ave., soon receives bids building addition to P. S. 43, 3-story, 59 x 100 ft., brick and steel, concrete foundation, on Brown Pl., Bronx. About $93,250. C. B. J. Snyder, Municipal Bldg., archt. Noted Dec. 5.

N. Y., New York—Store and Loft—Musher & Cox, 140 Liberty St., having revised plans prepared by S. B. Eisendrath, archt., 18 East 41st St., for 12 story, 49 x 100 ft., brick and limestone, concrete foundation, at 255-257 5th Ave. About $190,000. Noted Mar. 13.

N. Y., Watertown—Hotel—United Hotel Co., Buffalo, retained G. B. Post & Son, archts., 101 Park Ave., New York City, to prepare plans for new hotel on Washington St. About $500,000. Noted Feb. 13.

Del., Wilmington—School—Tower Hill School Assn. having plans prepared by Brown & Whiteside, archts., Du Pont Bldg., for 2 story, on 17th St. and Tower Hill Rd. About $250,000.

Va., Richmond — Theater — Vincent & Wells Co. plans to build 1 story, 94 x 123 ft., on Broad and 8th Sts. About $150,000. Carneal & Johnson, 707 Chamber of Commerce Bldg., archts.

N. C., Oxford—Schools—Bd. Educ. plans election Apr. 8 to vote on $50,000 bonds to build high school and other schools in Oxford Graded Dist.

Fla., Miami—Church—Roman Catholic congregation plans to build church. Cost between $100,000 and $150,000. About $40,000 now available and amount to be increased at rate of $300 per week.

Fla., Tampa—Theater—Strand Amusement Co. soon receives bids for theater on Tampa and Lack Sts. About $150,000.

O., Barberton—Theater—Park Theater Co., 156 Columbus St., soon lets contract building 2-story, 48 x 100 ft. brick and concrete, on Tuscarawas St. About $50,000. Swirsky & Miller, 701 Peoples Savings & Trust Bldg., Akron, archts.

O., Dayton—Club—City plans to build 10-story, 100 x 137 ft. rein.-con., rein.-con. flooring, on 1st and Main Sts. About $1,000,000.

O., Lorraine—School—Bd. Educ. receives bids about May building 1 story, 125 x 200 ft. brick and timber, concrete foundation. About $125,000. Perkins, Fellows & Hamilton, 814 Tower Ct., Chicago, archts.

O., Oxford—Dormitory—Miami University having plans prepared by L. G. Dettoe, archt., Cincinnati building 3 story, brick and rein-con., rein-con. flooring, concrete foundation. About $300,000.

Ind., Michigan City—Bank and Office—Vitzthum & Teich, archts., 21 East Van Buren St., Chicago, receive bids about Apr. 5, for 2 story, 50 x 110 ft. brick and timber, concrete foundation, for 1st Natl. Bank. About $65,000.

Mich., Detroit—Restaurant and Stores—Walker Bros. Catering Co., 29 Farmer St., having plans prepared by J. J. Walsh, archt., 1327-29 Chamber Commerce Bldg., building 2 story, 62 x 145 ft. brick, and rein.-con., rein.-con. flooring and concrete foundation at 535 Woodward Ave. About $75,000.

Mich., Pontiac—Grade School—Bd. Educ. receives bids in summer building 1 story, 110 x 200 ft. brick and timber, concrete foundation. About $100,000. Perkins, Fellows & Hamilton, 814 Tower Ct., Chicago, archts.

Ill., Chicago—Bank and Office—H. L. Newhouse, archt., 4630 Prairie Ave., receives bids about Apr. 1, for 3 story, 65 x 120 ft., brick and timber, concrete foundation, on 12th St. and Kedzie Ave. for Independence State Bank, 1215 South Kedzie Ave. About $125,000. Noted Feb. 13.

Ill., Chicago—Hotel—Edgewater Beach Hotel Co., 5349 Sheridan Rd., soon receives bids for 10 story, 150 x 150 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, at 5400 Sheridan Rd. About $1,000,000. Marshall & Fox, 721 North Michigan Ave., archts.

Ill., Chicago—Hotel—Whitestone Co., c/o Marshall & Fox, archts., 721 North Michigan Ave., having plans prepared for 12 or 14 story, 216 x 400 ft. rein.-con., rein.-con. flooring and concrete foundation on Lincoln Parkway at Oak St., to be known as Drake Hotel. About $3,500,000.

Ill., Chicago—Police Station—Dept. Pub. Wks., 406 City Hall, having plans prepared by C. W. Kallal, archt., 1012 City Hall, for 2-story brick and timber. About $85,000.

Ill., Chicago—Store and Office—Holabird & Roche, archts., 104 South Michigan Ave., receive bids in April, for 7 story, 28 x 148 ft. brick and steel building, rein.-con. flooring, concrete foundation, at 127-129 South State St., for L. E. Waterman & Co., 191 Bway., New York City. About $225,000. Noted Feb. 20.

Ill., Chicago—Theater, etc.—A. E. Whitbeck, c/o W. W. Ahlschlager, archt., 111 West Washington St., having plans prepared building 3 story, 135 x 150 ft. brick, rein.-con. and steel theater and stores, rein.-con. flooring and concrete foundation, on West 63rd St. and Union Ave. About $700,000.

Ill., East Moline—School—City election Apr. 17, to vote on $80,000 bonds to build 8-story, 88 x 162 ft. brick, rein.-con. flooring on 17th Ave. and 9th St. Whitsitt & Schulzke, archts., 610 People's Bank Bldg., Moline, preparing plans.

Wis., Green Bay—High School—City Council plans to build high school. About $250,000. W. L. Kerr, city clk.

Wis., Superior—Auditorium—City election Apr. 1 to vote on $75,000 bonds to build auditorium. M. G. Beckley, city clk.

Ia., Akron—School—City election Apr. 7 to vote on $65,000 bonds to build school. T. Thorson, Forest City, archt.

Ia., Burlington—School—Bd. Educ. had plans prepared for 3 story, 38 x 62 x 64 ft., brick. W. A. Dunlevy, co. supt.

Ia., Creston—Hotel—Creston Hotel Co., c/o J. W. Reynolds, plans to build 6 story. About $200,000.

Ia., Le Mas—Administration—Western Union College plans to construct administration building. About $85,000. C. A. Mock, pres.

Ia., Ottumwa—Church—Swedish Lutheran congregation plans to build brick and stone church. About $50,000.

Ia., Sioux City — Hospital — Samaritan Hospital, 17th and Pierce Sts., having plans prepared by Beuttler & Arnold, archts., 610 Security Bldg., building 4 story, brick addition, rein.-con. flooring, concrete foundation on Douglas and Pierce Sts. About $250,000.

Ia., Sioux City—Schools—School Bd. having plans prepared by Geuttler & Arnold, archts., 610 Security Bldg., for fireproof additions to present schools and building 1 junior high school. About $325,000.

Ia., Sioux City—Y. W. C. A., 515 Nebraska St., having plans prepared by Beuttler & Arnold, archts., 610 Security Bldg., for 4 story, brick building, rein.-con. flooring, concrete foundation on 6th and Nebraska Sts. About $150,000.

Minn., Greenbush—School—City plans to issue $50,000 bonds to build school.

Minn., Minneapolis—Hospital—Salvation Army, 632 Boston Blk., plans to build 3 story, brick addition, brick foundation on Como Ave. About $52,000.

Minn., St. Paul—Hospital—Northern Pacific Mutual Beneficial Assn., 203 R. R. Bldg., receives bids late in spring building 4 story, 120 x 280 ft., brick and stone. About $450,000. L. Bassindale, 421 Capital Bank Bldg., archts.

Kan., Abilene—Church—Methodist congregation plans to build church. About $50,000.

Kan., Baxter Springs—Memorial—City having plans prepared by C. H. Johnson, archt., building 5-story, 110 x 142 ft. brick and rein.-con., rein.-con. foundation on 10th and Military Sts. Plans include offices, theater and club. About $200,000.

Kan., Manhattan—Church—First Methodist Episcopal congregation plans to build church. About $150,000.

Kan., Ottawa—Auditorium—City election Apr. 1, to vote on $75,000 to purchase site and build auditorium. E. M. Cusick, city clk.

Kan., Wichita—Office—Sinclair Refining Co. purchased 5 lots on Walnut St. and plans to build 3-story, 50 x 140 ft. brick and rein.-con. About $50,000.

Neb., Gering—Court House and Jail—Scottsbluff Co. election Apr. 15 to vote on $250,000 bonds to build court house and jail.

Neb., Omaha—Salesroom, etc.—Western Motor Car Co., 2047 Farnum St., plans to build 6 story, 132 x 136 ft., rein.-con. salesroom and warehouse, on Farnum St. between 30th and 31st Sts. About $350,000. G. L. Fisher, 1429 City Natl. Bank Bldg., archt.

N. D., Valley City—High School—Bd. Educ. plans to issue $91,000 bonds for new high school.

Wyo., Greybull — School — School Bd. Dist. 41 plans election to vote on $60,000 bonds to build 2 story school. A. Dietrich, Billings, Mont., archt.

Mo., Columbia—Gymnasium, etc.—University of Missouri plans to build women's dormitory, astrological observatory, home economics building, brick and concrete, rein.-con. flooring and concrete foundation, on campus, cost $190,000; also build cattle barn, alter power house, etc., $60,000. A. R. Hill, pres. Noted Jan. 16.

Mo., Joplin—Smith, Rea & Lovitt, archts., Finance Bldg., Kansas City, receive bids about Apr. 1, for 4 story, 103 x 129 ft. brick and rein.-con. building, concrete foundation, here, for Y. M. C. A. Calumet Bldg., St. Louis. About $250,000. Noted Jan. 9.

Mo., Kirksville—Gymnasium, etc.—Kirksville State Normal School plans to rebuild gymnasium and dormitory recently destroyed by fire. About $100,000.

Mo., St. Louis—Hospital—Jewish Hospital, 5415 Delmar Blvd., plans to build hospital. About $1,000,000. A. Waldheim, pres.

Tex., Dallas — Synagogue — Shaareth Israel congregation soon lets contract building white brick and terra cotta on Eakins and Park Ave. About $100,000.

Tex., San Angelo—Hotel—C. C. McBurnett having plans prepared by H. A. Overback, archt., Juanita Bldg., Dallas, for 3 story addition to St. Angelus Hotel here. About $60,000.

Idaho, Boise—Y. M. C. A. Assn. plans to purchase site and construct building. Total cost $165,000.

Idaho, Twin Falls—High School—Bd. Educ. plans to build junior high school. About $65,000. B. E. Morse, Twin Falls, archt.

Utah, Provo—Court House—Utah Co. plans to issue $250,000 bonds to build court house.

Utah, Provo—Hospital—State Legislature, Salt Lake City, appropriated $75,000 to build addition to hospital here.

Utah, Salt Lake City—Assembly Hall—State Legislature appropriated $75,000 to build at State University, here. J. A. Wiltsoe, pres.

Ariz., Jerome—Fire Station, Jail, etc.—City plans election in April to vote on $100,000 bonds to build combined fire station and jail, also for fire mains, fire fighting equipment, culverts, etc. Bonds previously voted were invalid. Noted Sept. 26.

Ariz., Phoenix—Hotel and Bungalows—Salt River Valley Hotel Co., c/o E. F. Parker, pres. Southwest Cotton Co., Tollerson St., plans to build hotel and bungalows on 160 acre site. About $500,000.

Wash., Seattle—Clubhouse—Seattle Yacht Club, Georgia and Railroad Sts., plans to build 3 story, timber, in Montlake Park. About $50,000. J. Graham, Mfrs. Exch. Bldg., archt.

Buildings (Continued)

Cal., Covina—Schools—Covina Grammar School Dist. plans election to vote on $150,000 bonds to build 2 or 3 one story brick, hollow tile or concrete schools.

Cal., Long Beach—Church—First Christian congregation having plans prepared by R. H. Orr, archt., 1301 Van Nuys Bldg., Los Angeles, for frame church, concrete foundation, on 5th St. and Locust Ave. About $125,000.

Cal., Los Angeles—School—Bd. Educ. soon receives bids building 1 and 2 story, 132 x 220 ft., brick, concrete foundation, on 7th St. About $90,000. Allison & Allison, 1405 Hibernian Bldg., archts. Noted Jan. 16.

Cal., Orange—Auditorium, etc.—School Trustees plan election Apr. 5, to vote on $150,000 bonds to build auditorium and other buildings at Orange Union High School Dist. site.

Cal., San Francisco—School—Bd. Educ. soon receives bids building 3 story, brick and concrete, on 18th and Balboa Sts. About $125,000. J. Reid, 1st Nat. Bank Bldg., archt.

N. S., Halifax — Hospital — Salvation Army, 20 Albert St., Toronto, Ont., plans campaign to raise $150,000 to build hospital here.

Que., Montreal—Custom House—Dept. Pub. Wks., Ottawa, Ont., soon lets contract building extension to custom house here. About $900,000. R. C. Wright, c/o Dept. Pub. Wks., engr.

Que., Montreal—Memorial Hall—Bishop Carmichael Memorial congregation, St. Albans Anglican Parish, plans campaign to raise $50,000 to build Memorial Hall. H. E. Horsey, 1729 Deha Roche St., minister.

Ont., London—Theater, Store, etc.—J. & J. J. Allen having plans prepared by C. H. Crane & E. G. Kiehler, archts., 2325 Dime Bank Bldg., Detroit, Mich., building 2 story, 85 x 132 ft. with 27 x 132 ft. lobby, rein.-con., brick and steel, rein.-con. flooring, concrete foundation on Dundas St. About $200,000. Noted Feb. 27.

Ont., Mimico—School—Town soon lets contract building school. About $50,000. J. Kay, secy. Noted Mar. 13.

Ont., Toronto—Store—Adams Furniture Co., 26 Queen St., W., plans to build 7 story, 60 x 200 ft., rein.-con. and brick, on Yonge St. About $200,000. W. Steele & Sons, Ryrie Bldg., archt.

BIDS DESIRED

N. Y., Albany—School—Until Apr. 21, by Bd. Contr. & Supply, building P. S. 19, 3-story, 41 x 160 ft., brick and rein.-con., concrete foundation, on New Scotland Ave. About $50,000. Fuller & Robinson Co., 95 State St., archts.

N. Y., Brooklyn—Schools—Until Apr. 4, by Bd. Educ., 500 Park Ave., New York City, building P. S. 100, 4 story, 100 x 144 ft., brick and steel, concrete foundation, on West 1st St., cost, $299,500; P. S. 80, 4 story, 100 x 144 ft., brick and steel, concrete foundation, on West 19th St., $310,230. R. J. Snyder, Municipal Bldg., New York City, archt. Noted Dec. 5.

N. Y., Rome—School—Until Apr. 10, by Bd. Educ., building 2 story, 103 x 132 ft., brick, concrete foundation, on Linden St. About $150,000. W. T. Towner, 366-5th Ave., New York City, archt. Noted Mar. 6.

N. Y., Wards Island—Dining Room—Until Apr. 9, by State Hospital Comn., Capitol, Albany, building 3 story, 22 x 144 ft., brick, steel and concrete, rein.-con. flooring, concrete foundation, at Manhattan State Hospital, here. Former bids rejected.

Ky., Scottsville — Hotel — Until Apr. 10 by T. B. Dixon, building 3 story, brick hotel. R. E. Turbeville, Scottsville, archt.

O., Bellaire — Temple — Until Apr. 16, by United Mine Workers of Sub. Dist., No. 5, Bridgeport, building 3 story, 82 x 129 ft. brick, on Central Ave. and Belmont St. About $125,000. P. F. Faris, Schmulback Bldg., Wheeling, W. Va., archt. Noted Jan. 30.

Ill., Chicago — Exchange — Holabird & Roche, archts., 104 South Michigan Ave., receiving bids building 3-story, 42 x 66 ft. brick and timber addition, rein.-con. flooring and concrete foundation, at 25 South Seeley Ave., for Chicago Telephone Co., 212 West Washington St. About $100,000.

Ill., Chicago—School—Until Apr. 2, by Bd. Educ., building 3 story, 105 x 160 ft., brick and steel addition to Nash School, rein.-con. flooring, concrete foundation, on Erie St. and Lamon Ave. About $250,000. A. F. Hussander, 6 South Dearborn St., archt. Noted Sept. 12.

Wis., Superior—School—Until Apr. 14 by Bd. Educ. building 2 story, 80 x 200 ft. with 1 story, 56 x 70 ft. wing on 21st St. between Lamborn and Weeks Sts. About $200,000. F. E. Johnson, Wisconsin Blk., archt. Noted Feb. 20.

Ia., Jefferson—School—Until Apr. 9, by Bd. Educ., building 2 story, 79 x 152 ft., rein.-con. and brick. About $140,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., Des Moines, archts. Noted Sept. 12.

Ia., Menlo—School—Until Mar. 31 by Bd. Educ., building 3-story, 61 x 104 ft., rein.-con. and stone. About $75,000. Keffer & Jones, 610 Youngerman Bldg., Des Moines, archts. Noted Feb. 20.

Minn., Brainerd—Courthouse—Until May 1, by Alden & Harris, archts., 1011 New York Life Bldg., St. Paul, building 3 story, rein.-con. and brick, rein.-con flooring, concrete and rock foundation for Crow Wing Co. About $250,000.

Minn., Buhl—High School—Until Apr. 15, by St. Louis Co. Dist. No 35, building 3 story rein.-con. and brick addition, rein.-con. flooring, concrete and rock foundation on Chestnut St. About $275,000. A. W. Kerr & Co., 524 Metropolitan Bank Bldg., Minneapolis, archts.

Minn., Chisholm—Auditorium—Until Apr. 15, by A. Puck, archt., Tarrey Bldg., Duluth, building 2 story, 85 x 125 ft., rein.-con. and brick, on Main St., for city. About $100,000.

Minn., Virginia—Hall—Until May 1, by A. C. Bickford, city clk., building 3 story, rein.-con and brick, rein.-con. flooring, concrete and rock foundation on Main St. About $200,000. A. W. Kerr & Co., 524 Metropolitan Bank Bldg., Minneapolis, archts. Noted Feb. 13.

Cal., Compton—School—Until Apr. 4, by Compton Union High School Dist., building 1 story, 56 x 146 ft., manual arts school, concrete foundation. Allison & Allison, 1405 Hibernian Bldg., Los Angeles, archts.

B. C., Vancouver — See "Industrial Works."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Boston—Rectory, etc.—St. Philips congregation, Harrison Ave., let contract building 3-story, 40 x 60 ft. brick and concrete rectory and chapel, concrete foundation, to Archdeacon & Sullivan, 5 East Concord St. About $50,000.

Conn., Fairfield—School—St. Thomas congregation received only bid building 2 story, 62 x 96 ft. brick, concrete and steel, rein.-con. flooring and concrete foundation, on Boston Post Rd., from Casey & Hurley, 120 Pequock St., Bridgeport. About $65,000. Noted Mar. 13.

★Conn., Hartford—School—Bd. Educ., north East School Dist., let contract building 3-story, 80 x 150 ft. brick and concrete addition to school, concrete foundation, on Westland St., to Wise & Upson, Inc., 36 Pearl St. About $225,000. Noted Feb. 6.

★Conn., New Haven (Hamden)—Church—Hamden Plains Methodist Episcopal Society, Hamden, let contract building 57 x 115 ft. brick on Dixwell Ave. and Church St., to J. E. Todd, 255 Kimberley Ave. Noted Feb. 13.

★N. Y., Long Island City—Studio and Laboratory—Famous Players-Lasky Corp., 485 5th Ave., New York City, let contract building 4 story, 100 x 200 ft., studio and 3 story, 90 x 120 ft. laboratory, both rein.-con. and brick, rein.-con. flooring, concrete foundation, on Pierce, Graham, 5th and 7th Aves., to Fleischmann Constr. Co., 531 7th Ave., New York City. About $2,000,000; cost plus percentage.

★N. Y., New York—Theater—City Real Estate Co., 176 Bway, will build 2 story, 189 x 213 ft. brick and steel, concrete foundation, at 4827 Bway. About $100,000. Work will be done by day labor. B. Cleveland, pres. Noted Mar. 13.

★Pa., Palmerton—School—Bd. Educ. let contract building grade school to C. W. Strayer, Lemoyne. About $72,500. Noted Mar. 6.

Pa., Phila.—Drill Shed—Armory Bd. of State of Pa., Capitol, Harrisburg, received bids Mar. 21, building 1 story, 154 x 282 ft. rein.-con., steel and brick, rein-con. flooring, concrete foundation, on Lancaster Ave. from 32nd to 33rd St., from G. F. Pawling Co., 1432 South Penn Sq., $215,000; Standard Constr. Co., 1713 Sansom St., $239,860. Noted Mar. 6.

★Pa., Phila.—Theater—Advanced Amusement Co., c/o Palace Theater, 1214 Market St., let contract for remodeling theater, to D. I. Henon, 5324 Cedar Ave. About $50,000.

★O., Cleveland—See "Industrial Works."

★Wis., Marshfield—School—Bd. Educ., School Dist. No. 1, let general contract building high and vocational school, to Krasin Bros., Marshfield, $52,200.

★Minn., Bloomington—(Minneapolis P. O.) —Club—Minneapolis Auto Club, Bank Bldg., let contract building 2 story, brick and tile, to J. Leck Co., 316 South 7th St. About $75,000.

★Mo., St. Louis—Hotel—A. D. Gates Constr. Co., Chemical Bldg., will build 5 story, 38 x 109 ft. and 31 x 48 ft. brick and rein.-con., concrete flooring and foundation, at 5540 Pershing Ave. About $100,000. Work will be done by day labor.

★Utah, Salt Lake—Office—V. Clift, 10 West Bway., let contract building 8-story, 80 x 165 ft., rein.-con. on 3rd S. and Main Sts., to Larsen-Sampson Co., Crocker Bldg., San Francisco, $550,000.

★Wash., Bremerton—Clubhouse—Y. M. C. A. let contract building 5 story, concrete, with brick and concrete foundation, to Rounds Clist Constr. Co., Walker Bldg., Seattle. About $60,000.

★Wash., Bremerton—Dance Hall, etc.—M. E. Giles let contract building 60 x 103 ft., hollow tile building to contain dance hall, etc., to C. Oleson, Bremerton. About $56,000.

Federal Government Work

PROPOSED WORK

N. Y., Stapleton—Hospital—Congress appropriated $190,000 to build addition to hospital here.

D. C., Wash.—Hospital—Congress appropriated $550,000 to build complete hospital here.

D. C., Wash.—Hospital—Congress appropriated $750,000 to remodel and enlarge hospitals as follows: Camp Cody, N. M.; Camp Hancock, Ga.; Camp Joseph E. Johnston, Fla.; Camp Beauregard, La.; Camp Logan, Tex.; Camp Fremont, Cal.; also $1,500,000 has been appropriated for sanitorium at Dawson Springs, Ky.

Va., Norfolk—Hospital—Congress appropriated $900,000 to build complete hospital here.

Idaho, Bonners Ferry—Roads—U. S. Bureau Pub. Rds., Portland, Ore., plans to grade 4 mi. Pend Odelle Natl. Forest Rd. from Addie to Copeland. About $10,000. L. I. Hewes, Bway.-Yamhill Bldg., Portland, Ore., dist. engr.

Idaho, Grangeville—Roads—U. S. Bureau Pub. Rds., Portland, Ore., plans to grade 23 mi. Kooskia-Lowell Rd., Idaho Co. About $100,000. L. I. Hewes, Bway.-Yamhill Bldg., Portland, Ore., dist. engr.

Idaho, Sandpoint—Roads—U. S. Bureau Pub. Rds., Portland, Ore., plans to grade 8 mi. Kootenai Cabinet Rd. between Hope and Pack River, Bonner Co. About $25,000. L. I. Hewes, Bway.-Yamhill Bldg., Portland, Ore., dist. engr.

BIDS DESIRED

R. I., Block Island—Rip Rap—Until Apr. 4, by Lighthouse Supt., Tompkinsville, N. Y., furnishing and placing 6000 tons rip rap on west side of outer end of Great Salt Pond Breakwater here.

R. I., Coddington Point—Wall and Dock—Until Mar. 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3726. About $225,000. Noted Dec. 19.

Federal Government Work (Continued)

Mass., Boston—Electric Bridge Cranes—Until Apr. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing 6 electric bridge cranes in machine shop addition; Spec. 3477. About $175,000; $10 deposit required for plans and spec. Noted Sept. 26.

Conn., New London—Dredging—Until Apr. 8, by U. S. Eng. Office, New London, for annual maintenance dredging in Connecticut River below Hartford; advertised in this issue.

N. Y., Buffalo—Removing Wreck—Until Apr. 10, by U. S. Eng. Office, 540 Federal Bldg., removing wreck of Steamer Tempest from Erie Harbor, Pa.; advertised in this issue.

D. C., Wash.—Road Work—Until Apr. 15, by Zone Supply Officer, 17th and F Sts., N. W., grading, paving, draining, etc., in southern portion of Arlington Cemetery.

W. Va., Wheeling—Radial Brick Chimney—Until Apr. 9, by U. S. Eng. Office, Wheeling, furnishing, delivering and erecting radial brick chimneys at Dams 21, 23, 25 and 27, Ohio River.

W. Va., Wheeling—Valve Jacks—Until Apr. 17, by U. S. Eng. Office, Wheeling, furnishing and delivering river wall valve jacks for Dams 23, 25 and 27, Ohio River; advertised in this issue.

Fla., Jacksonville—Coal—Until Apr. 16, by U. S. Eng. Office, Jacksonville, furnishing 3000 short tons coal for U. S. dredges on St. Johns River and tributary waters; advertised in this issue.

Fla., Pensacola—Electrical Equipment—Until Apr. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing here; Spec. 3785. About $30,000; $10 deposit required for plans and spec. Noted Feb. 6.

Mo., St. Louis—Earthwork—Until Apr. 23, by Secy. Mississippi River Comn., International Life Bldg., for 290,000 cu.yd. earthwork in Lima Lake D. D., near Quincy, Ill.; 110,000 cu.yd. earthwork in Hunt D. D., Hancock Co., Ill.; 200,000 cu.yd. earthwork levee enlargement, Muscatine, Ia.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Pa., Easton—Hoistway, Lift, etc.—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract installing hoistway, hydraulic lift, pump, etc., in post office here, to Otis Elevator Co., Metropolitan Bank Bldg., Wash., D. C., $10,870. Noted Feb. 27.

★Pa., Phila.—Steel Storage Racks, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building substructure for steel storage racks, laying track, grading, etc., to Curtis Bros., Longshore and Tulip Sts., Tacony, $84,902 (110 days). Noted Jan. 30.

★Va., Yorktown—Wooden Pier and Approach—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C., $156,207 (120 days). Noted Mar. 20.

★Fla., Pensacola—Concrete Road—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to J. Jerken, Brent Bldg., $11,749 (50 days). Noted Jan. 16.

Ala., Decatur—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids: (1) original bids, (2) supplemented bids, amount to be deducted from (1) S. Plate, Marion, Ind., (1) $55,370; (2) deduct $10,878; A. Blair, 11 South Lawrence St., Montgomery, $55,370, (2) deduct $9000; R. P. Farnsworth & Co., Owensboro, Ky., (1) $60,573, (2) deduct $15,323. Noted Dec. 5.

★Mo., St. Louis—Enlarging Levee—Secy. Mississippi River Comn., 1311 International Life Bldg., let contract filling 354,000 cu.yd. old borrow pits and rebuilding or enlarging 96,000 cu.yd. levee, to Northern Dredge & Dock Co., Providence Bldg., Duluth, Minn., $121,050. Noted Feb. 20.

★Tex., El Paso—Valves, etc.—U. S. Recl. Serv., El Paso, let contract furnishing balanced valves, in connection with Elephant Butte Dam, Rio Grande Irrigation Project, New Mexico, Texas, to Rosedale Fdry. & Machine Co., Columbus and Preble Sts., Pittsburgh, $11,080; auxiliary control seat rings and throat pieces to Stearns-Rogers Mfg. Co., 1720 California St., Denver, Colo., $6352.

Tex., North Ft. Worth—Argon Production Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Mar. 17.

(1) net price and time for work complete in accordance with drawings and specifications, basing proposal on coal tar pitch built up roofing and excluding all excavating back filling and concrete work on cooling pond;

(2) amount to be deducted from (1) if all work under heading "Erection of Machinery" is excluded;

(3) amount to be deducted from (1) if all work under heading "Removal of Gas Holder" is excluded;

(4) amount to be deducted from (1) if all work under heading "Piping for Machinery" is excluded. Work on this heading includes all piping for machinery above ground and floors;

(5) amount to be deducted from (1) if all work under heading "Transmission Line" is excluded;

(6) amount to be deducted from (1) if all work under heading "Electrical Distribution System" is excluded;

(7) amount to be deducted from (1) if all work under heading "Railroad" is excluded;

(8) amount to be deducted from (1) if all work under heading "Roads and Walks" is excluded;

(9) net price and time for all work under heading "Erection of Machinery" complete and in accordance with drawings and specifications;

(10) net price and time for all work under heading of "Removal of Gas Holders" complete and in accordance with drawings and specifications;

(11) net price and time for all work under heading "Piping for Machinery" complete and in accordance with drawings and specifications. Work under the heading includes all piping for machinery above ground and floors;

(12) net price and time for all work under heading "Transmission Line" complete and in accordance with drawings and specifications;

(13) net price and time for all work under heading "Electrical Distribution System" complete and in accordance with drawings and specifications;

(14) net price and time for all work under heading "Railroad" complete and in accordance with plans and specifications;

(15) net price and time for all work under heading "Road and Walks" complete and in accordance with drawings and specifications;

(16) amount to be added to or deducted from (1) if asphalt built up roofing is substituted for coal tar pitch;

(17) unit price per cubic yard for excavating and back-filling required in construction of the "Cooling Pond";

(18) unit price per running foot for all concrete work installed in construction of "Cooling Pond" including cutting rock at bottom and waterproofing, from

Dawson Constr. Co., 810 Union Trust Bldg., Wash., D. C., (1) $543,000, (time as specified); (2) $12,000; (3) $3000; (4) $112,000; (5) $4600; (6) $27,500; (7) $6500; (8) $11,194; (9) $12,000; (10) $3000; (11) $112,000; (12) $4600; (13) $27,500; (14) $6500; (15) $11,194; (17) $3.50; (18) $25.

Central Contg. Co., Beattie Building, Houston, (1) $553,000, (220 days); (2) $20,000; (3) $5000; (4) $105,000; (5) $2000; (6) $27,000; (7) $4500; (8) $8000; (16) add $600; (17) $1.00; (18) $4.00.

Carroll Electric Co., 714 12th St., N. W., Wash., D. C., (1) $596,768, (180 days); (2) deduct $16,000; (3) deduct $14,000; (4) deduct $58,000; (5) deduct $5600; (6) deduct $36,000; (7) deduct $5700; (8) deduct $14,000; (9) $20,600, (60 days); (10) $18,200, (30 days); (11) $71,600, (60 days); (12) $7600, (30 days); (13) $44,500, (60 days); (14) $9000, (30 days); (15) $19,700, (60 days); (17) $3.00; (18) $10.00. Noted Mar. 13.

★Cal., San Diego—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building 7 barrack buildings to Dawson Constr. Co., 810 Union Trust Bldg., Wash., D. C. (3, 7, 8 and 9b), $949,500. Noted Mar. 13.

Miscellaneous

PROPOSED WORK

Roller Coaster — West Haven (New Haven, P. O.) **Conn.**—S. A. de Waltoff, 67 California St., plans to build roller coaster, 2500 ft. track, 9000 ft. bank iron, 500 ft. link belt and 50 hp. electric motor. About $18,000.

Receiving Vault—Watertown, N. Y.—City having plans prepared by E. W. Sayles, city engr., for concrete receiving vault. About $16,500.

Removing Tracks, Parking, etc.—Baltimore, Md.—Bd. Estimates considering removal of parking from center of North Ave. between Charles and Oak Sts., 16,500 ft. long, 20 ft. wide; removal of United Rys. Co. tracks to center of streets and paving between tracks, sheet asphalt on Belgian blocks. Cost between $20,000 and $25,000. G. F. Wieghardt, city engr.

Fill—Jacksonville, Fla.—City plans to fill 1 mi. strip along water front from Lancaster Terrace, south, 250 ft. wide, involving 33⅓ acres averaging 3 yd. deep, to cost $17.50 per lin.yd., $924 per acre and $0.07 per cu.yd. Total cost, $30,800.

Bulkhead—Kissimmee, Fla.—City soon receives bids building bulkhead at Lake Tohopekaliga. Bonds for $100,000 voted for this and other civic improvements.

Telephone Lines—Boone, Ia.—Boone Co. Telephone Co. plans to expend $25,000 for improvements to its lines.

Road Oil—Davenport, Ia.—Comrs. Scott Co. soon receives bids supplying 120,000 gal. road oil. A. A. Ryan, Davenport, co. engr.

Tractors, Drags, etc.—Williston, N. D.—Comrs. William Co. plan to purchase tractors, drags and other road equipment. M. Aaen, co. aud.

Levee—Malta Bend, Mo.—Saline-Lafayette Levee Dist. receives bids about Apr. 1 for 150,000 cu.yd. levee work. About $35,000. C. S. Swift, Lexington, engr.

Extending Electric Distribution System, etc.—Brigham, Utah—City voted $15,000 bonds to extend and overhaul electric distribution system, including new street lighting equipment.

Rock Breakwater—Redondo Beach, Cal. City retained **Leeds & Barnard**, engrs., Central Bldg., **Los Angeles**, to prepare estimate of cost of building 1800 ft. rock breakwater and concrete pontoons filled with sand. About $300,000 available. Address J. V. McCullen, city industrial mgr.

Road Graders, etc.—St. John, N. B.—City plans to purchase 4 road graders and one 1½ ton motor truck. G. F. Fisher, comr. wks.

Monument—Hull, Que.—City plans to build monument. About $20,000. R. E. Boucher, engr.

Culverts—Ottawa, Ont.—See "Streets and Roads."

Culverts—Toronto, Ont.—Toronto & York Good Roads Comn. soon lets contract building 7 rein.-con. culverts. About $14,000. E. A. James, engr.

BIDS DESIRED

Miscellaneous Supplies — Long Island City, N. Y.—Until Apr. 3, by M. E. Connolly, pres. Queens Boro., furnishing and delivering 6500 cu.yd. sand, 2500 cu.yd. sand grit or broken stone chips at various points in borough, 2 automobile pressure distributors for bituminous distribution, including chassis pump tank and fittings.

Miscellaneous Supplies—New York, N. Y.—Until Apr. 3, by Dept. of Parks, furnishing and delivering grits, 80,000 gal. tar road oil, etc., Bronx Boro.

Miscellaneous Supplies—New York, N. Y.—Until Apr. 3, by J. H. Delaney, comr. plant and structures, Municipal Bldg., furnishing and delivering 200,000 wood paving blocks, 3 x 3 x 8 in., and 200,000 wood paving blocks, 2 x 6 2½ in.

Miscellaneous Supplies—New York, N. Y.—Until Apr. 4, by F. L. Dowling, pres. Manhattan Boro., furnishing and delivering 20,000 new granite paving blocks.

Road Roller—Newark, N. J.—Until Mar. 31, by G. C. Bergen, purch. agt. Essex Co., furnishing one 12-ton single cylinder gasoline road roller.

Paving Material—Springfield, Ill.—Until Apr. 2, by Dept. Pub. Wks., furnishing about 2,000,000 bbls. Portland cement for state and Federal-aid road and bridge work.

Paving Material—St. Paul, Minn.—Until Mar. 31, by H. W. Austin, purchasing agt., City Hall, furnishing paving material, including crushed rock, cement, wood blocks, asphalt filler, asphalt cement, etc.

Miscellaneous (Continued)

Road Oil—St. Paul, Minn.—Until Mar. 31, by H. W. Austin, purchasing agt., City Hall, furnishing 70 cars more or less road oil for Dept. Pub. Wks., 60,000 gal. more or less for Dept. Parks, Playgrounds & Pub. Bldgs., required during year.

Fill and Bulkhead—Astoria, Ore.—Until Apr. 16, by Sanitary and Recl. Comn., building bulkhead, fill and rock work, in Recl. Impvt. Dist. No. 3. Work involves 779 brace piles and pile shoes, 2350 straight lumber piles, 35-40 ft. long, 697,620 ft. Wakefield sheeting, 53,325 ft. platform decking, 187,669 ft. lagging, 76,582 ft. walling, 24,147 ft. miscellaneous; hardware, 1348 lb. 1 x 22 in. 18,750 lb. 1 x 24 in., 2746 lb. ¾ x 24 in., 3462 lb. ¾ x 30 in. bolts, 166 lb. 8 in. boat spikes, 5060 lb. 12 in. boat spikes, 80 lb. 8 in. galvanized spikes, 3636 cu.yd. rock rip-rap, quarry refuse and screenings, 4901 cu.yd. one man rock, 1,285,201 cu.yd. fill. About $400,000. Noted Feb. 27.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Driving Piles**—Providence, R. I.—Marine Eng. & Drydock Co., Allens Ave., let contract driving 1300 concrete piles, 70-80 ft. long, for new marine railway, to Aberthaw Constr. Co., 27 School St., Boston.

★**Retaining Wall, etc.—Waterbury, Conn.**—Amer. Brass Co., Grand and Meadow Sts., let contract building rein.-con. retaining wall and 10 x 15 ft. rein.-con. pump house, to Torrington Bldg Co., 197 Water St., Torrington. About $10,000.

Miscellaneous Supplies—Albany, N. Y.—State Highway Comn., 55 Lancaster St., received bids Mar. 16, furnishing and delivering bituminous material (1) cold patch asphaltic emulsion, Div. 1, 2, 3, 4 and 5, (2) cold patch asphaltic emulsion, Div. 6, 7, 8 and 9, (3) asphalt cut back, all divisions, (4) material "A" binder, all divisions, (5) light cold oil, all divisions, (6) light hot oil, all divisions, (7) material "T" cold patch, all divisions, (8) material "T" cold applications, all divisions, from Atlantic Refining Co., Inc., 3144 Passayunk Ave., Philadelphia, Pa., (1) $73,397, (2) $59,625, (3) $83,046, (4) $92,175; (5 and 6) $31,143;

Warner Quinlan Co., 79 Wall St., New York City, (1) $75,712, (2) $61,288, (3) $93,009, (4) $96,427, (5 and 6) $36,274;

Capitol City Supply & Contg. Corp., Albany, (1) $90,161, (2) $74,980, (3) $121,293;

Headley Good Roads Co., 30th and Spruce Sts., Philadelphia, Pa., (1) $91,052, (2) $74,165, (3) $82,695;

Standard Oil Co., of New York, 26 Bway., New York City, (3) $80,175, (4) $97,555, (5 and 6) $35,674;

U. S. Asphalt Refining Co., 90 West St., New York City, (4) $87,331, (5 and 6) $34,343;

Texas Co., 17 Battery Pl., New York City, (4) $95,757; (5 and 6) $50,595;

Prudential Oil Co., 17 Battery Pl., New York City, (5 and 6) $39,316;

Barrett Co., 17 Battery Pl., New York City, (7) $112,065, (8) $125,611;

United Gas Impvt. Co., Broad and Arch Sts., Phila., Pa., (7) $121,667. Noted Mar. 6.

Miscellaneous Supplies—New York, N. Y.—F. L. Dowling, pres. Manhattan Boro., received bids Mar. 19, furnishing and delivering (1) 600 tons asphaltic paving cement, (2) 70,000 gal. fuel oil (3), 40,000 granite paving blocks, (4) 200,000 sewer bricks, (5) 6000 cu.yd. paving sand, (6) 3000 cu.yd. paving grits, from Standard Oil Co., 26 Bway., (1) $12,510 (2) $5950; Atlantic Refinery Co., 3140 Passayunk St., Phila., Pa., (1) $15,330; Warner-Quinlan, 26 Bway., (1) $17,366; Booth Bros., 206 Bway., (3) $5000; J. Leopold, Woolworth Bldg., (3) $5080; Rockport Granite Co., 13 Park Row, (3) $5100; J. A. McCarthy, 149th St. and Exterior Ave., (4) $3570; Manhattan Sand Co., 418 East 49th St., (5) $8880 (6) $4440; Lenox Sand Gravel Co., Hudson River and 157th St., (5) $9135, (6) $4680; E. H. Lougee, 222 4th Ave., (5) $9650, (6) $4950. Noted Mar. 13.

Paving Blocks—New York, N. Y.—F. L. Dowling, pres. Manhattan Boro., received bids Mar. 19, furnishing and delivering 630,000 granite paving blocks, from W. J. Fitzgerald, 547 West 45th St., $13,860; J. Leopold & Co., Woolworth Bldg., $15,687; Rockport Granite Co., 13 Park Row, $17,010. Noted Mar. 13.

HIGHWAY-OSWEGO, KAN.

Section "A"

Bids were received by Commissioners of Labette Co. for constructing highway from Oswego to Chetopa, Federal Aid Project No. 2, from (A) W. C. Jucksch, Sapulpa, Okla., (awarded contract); (B) Elliott & Vance, Parsons; (C) Maley & Kelly, Kansas City, Mo.; (D) Cameron-Joyce Co., Keokuk, Ia., $91,653. The unit bids of the lowest 3 bidders were as follows:

Section A	A	B	C
25,547 cu.yd. earth excavation	$0 36	$0 45	$0 40
24,455 cu.yd. earth borrow	35	45	37
134.5 cu.yd. Class "A" concrete	19 00	20 00	20 00
405.5 cu.yd. Class "C" concrete	17 50	16 00	18 00
6,900 lb. reinforcing steel	07	07	80
42,900 sq.yd. earth shoulders	04	05	04
86,164 sq.yd. gravel roadway	58	58	66
384 ft. drain tile	25	20	15
2 section markers	25 00	20 00	25 00
Hauling and installing concrete culvert pipe			
584 ft. 15-in. pipe	85	65	.80
322 ft. 18-in. pipe	1 10	85	1 05
306 ft. 24-in. pipe	1 50	1 00	1 45
16 ft. 30-in. pipe	2 50	1 25	1 90
Extended totals	$81,078	$85,378	$89,779

Section "B"

Bids were received by Commissioners of Labette Co. for constructing highway from Parsons to Altamont, from (A) Elliott & Vance, Parsons, (awarded contract); (B) W. C. Jucksch, Sapulpa, Okla. The unit bids were as follows:

Section B	A	B
28,775 cu.yd. earth excavation	$0 45	$0 36
12,530 cu.yd. earth borrow	45	36
41.1 cu.yd. Class "A" concrete	20 00	20 00
346.5 cu.yd. Class "B" concrete	16 00	19 00
8238 lb. reinforcing steel	07	.07
47,479 sq.yd. earth shoulders	05	.05
95,360 sq.yd. gravel roadway	87	1 10
2 section markers	20 00	25 00
Hauling and installing concrete culvert pipe		
1208 ft. 15-in. pipe	65	.65
248 ft. 18-in. pipe	85	.52
192 ft. 24-in. pipe	1 00	1 00
32 ft. 30-in. pipe	1 25	1 25
Extended totals	$112,135	$131,840

STATE HIGHWAY—CALIFORNIA

Bids were received by State Highway Comn., Forum Bldg., Sacramento, for constructing state highway in San Luis Obispo Co., Div. 5, Sect. 3, Route 33, from (A) C. H. Hudson, Marsh-Strong Bldg., Los Angeles; (B) Isbell Constr. Co., Fresno; (C) John P. Holland, San Francisco; (D) G. S. Benson & Sons, Stimson Bldg., Los Angeles, $88,267; (E) F. Rolandi, 550 Montgomery St., San Fracnisco, $104,674; (F) Plamer & McBryde, Hooker & Lent Bldg., San Francisco, $105,873; (G) W. J. Schmidt, Berkeley, $132,440; (H) B. J. Crowley, San Francisco, $158,527. The uint bids of the lowest 3 bidders were as follows:

	A	B	C
Excavation			
78,200 cu.yd. without classification	$0 69	$0 70	$0 85
1600 lin.ft. 12-in. corrugated metal pipe	1 30	1 00	.70
385 lin.ft. 18-in. corrugated metal pipe	1 60	1 00	1 10
295 lin.ft. 24-in. corrugated metal pipe	1 90	1 00	1 40
85 lin.ft. 30-in. corrugated metal pipe	2 00	1 25	2 00
345 lin.ft. 36-in. corrugated metal pipe	2 50	1 60	2 50
Portland cement concrete			
465 cu.yd. Class "A" (culverts-monorails)	22 00	25 00	20 00
Surfacing			
3500 cu.yd. (shale and gravel)	1 20	1 80	1 40
1000 lin.ft. guard rail	1 00	1 00	.60
130 Monuments	1 50	1 00	1 00
Extended totals	$73,872	$76,733	$84,389

★**Rebuilding Ferry Racks—New York, N. Y.**—J. A. Delaney, comr. plant and structures, rejected all bids received Feb. 26 rebuilding ferry racks at Manhattan Terminal of Staten Island ferry. About $75,000. Work will be done by day labor. Noted Mar. 6.

★**Oiling Roads—Baltimore, Md.**—State Rds. Comn., 601 Garrett Bldg., let contract to United Gas Impvt. Co., Broad and Arch Sts., oiling 37.95 mi. roads in Div. 2, Dorchester, Somerset, Wicomico and Worcester Counties, involving 69,103 gal. oil, cost, $8258; Div. 2, 81.61 mi. roads in Cecil, Kent, Queen Annes, Talbot and Caroline Counties, 165,796 gal. oil, $19,547; Div. 3, 53.3 mi. in Montgomery, Howard, Prince Georges and Charles Counties, 109,188 gal. oil, $13,179; Div. 4, 147.33 mi. roads, in Baltimore, Harford and Anne Arundel Counties, 299,376 gal. oil, $36,374; to Atlantic Refining Co., 3144 Passavunk Ave., Div. 5, 147.89 mi. roads, Carroll, Frederick, Howard, Montgomery and Baltimore Counties, 300,939 gal. oil, $35,962; to Barrett Co., 36th St. and Grays Ferry Rd., 161.55 mi. roads in Garrett, Allegany, Washington and Frederick Counties, 362,262 gal. oil, $46,329. All contractors of Phila., Pa. Noted Feb. 13.

★**Gas Tank—Chicago, Ill.**—Peoples Gas, Light & Coke Co., 122 South Michigan Ave., let contract building 10,000,000 gal. gas tank on Crawford Ave. and 36th St., to Bartlett Hayward Co., 122 South Michigan Ave. About $600,000. This is first item of construction in connection with plant to cost $15,000,000.

★**Dock—Cedar Rapids, Ia.**—Swift & Co., 116 B Ave., let contract building 24 x 100 ft addition to dock with 50 x 60 ft. wing, to T. Stark & Co., 118 South 11th St., $20,000.

★**Tunnel—Los Angeles, Cal.**—Bd. Pub. Wks. let contract building 2nd St. tunnel, to J. Hayes, 7176 West 30th St. About $995,773. Tunnel will be single bore, from Hill to Flower Sts., 1602 ft. long, 28 ft. high, masonry lined with tile. Work includes stairway, cost, $946,496, grading at portals, $25,846; 37,694 sq.ft. grading for repaving, $0.11 per ft., 47,347 sq.ft. asphalt repaving, $0.095 per sq.ft., 102 sq.ft. granite block repavement, $41 per sq.ft., 836 sq.ft. grading and asphalt resurfacing, $0.109 per sq.ft., 3198 lin.ft. cement curb, $0.36 per lin.ft., 148 lin.ft. granite curb, $1.575 per sq.ft., 26,306 sq.ft. cement sidewalks, $0.114 per sq.ft., 3341 sq.ft. granite block gutters, $0.417 per sq.ft., storm sewers catch basins, etc., $746, sanitary sewers, $7997. Noted Nov. 21.

★**Dam and Tunnel—Olinda, Cal.**—Shasta Co. let contract building Messelbeck dam and digging Hoover tunnel for Happy Valley Irrigation Dist., to W. A. Kraner, Balboa Bldg., San Francisco. About $325,000; cost plus percentage.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: April 3 and 4.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock P.M., on Thursday, the 3rd day of April, 1919, for the repair of highways in the following counties:

Albany: One contract, reconstruction.
Broome: One contract, resurfacing.
Delaware: One contract, resurfacing.
Erie: two contracts, resurfacing and reconstruction.
Genesee: One contract, reconstruction.
Hamilton: One contract, resurfacing.
Herkimer: One contract, surface treatment.
Monroe: Two contracts, resurfacing and surface treatment.
Oneida: One contract, resurfacing.
Onondaga: Four contracts, resurfacing.
Saratoga: One contract, reconstruction.

Sealed proposals will also be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock P.M., on Friday, the 4th day of April, 1919, for the repair of highways in the following counties:

Allegany: One contract, surface treatment.
Cayuga: One contract, resurfacing.
Fulton: One contract, surface treatment.
Livingston: Three contracts, surface treatment and reconstruction.
Monroe: One contract, surface treatment.
Montgomery: One contract, surface treatment.
Ontario: Two contracts, reconstruction and surface treatment.
Orleans: One contract, surface treatment.
Otsego: One contract, reconstruction.
Schenectady: One contract, reconstruction.
Schuyler: One contract, surface treatment.
Steuben: Three contracts, resurfacing.
Sullivan: One contract, resurfacing.
Tioga: One contract, surface treatment.
Tompkins: One contract, surface treatment.
Ulster: One contract, resurfacing.

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the roads are to be improved. The addresses of the division engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "General Information for Bidders" on the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY,
Commissioner.

I J. MORRIS,
Secretary.

PROPOSALS FOR DREDGING.—U. S. Engr. Office, Old Federal Building, Wilmington, Del. Sealed proposals will be received here until 11 A.M., Mar. 31, 1919, and then opened, for dredging Tuckerton Creek, N. J. Further information on application.

Price, $3.60 an inch—Copy can be received until Wednesday, 10 a.m., for issue out the next morning.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

OFFICIAL PROPOSALS

Bids: March 31.

Water-Works Improvement

Philadelphia, Pa., March 18, 1919.

Notice is hereby given that sealed proposals will be received by the Bakerton Water Company, at their office in Bakerton (Elmora P. O.), Cambria County, Penn., until 12 o'clock noon, on Monday, March 31st, 1919, for the construction complete of a

(1) STORAGE WATER RESERVOIR

One and one-fourth miles east of Bakerton, Cambria County, Penn., with all its accessories, in which the Embankment Item is about Seventeen Thousand Cubic Yards, and the Concrete Masonry Item about Twelve Hundred Cubic Yards; and

(2) EIGHT INCH CAST IRON PIPE WATER LINE

From the Gate House of the Dam to Reed Street, in Bakerton, about 6600 lineal feet, with Specials, Gates, Hydrants, etc.

Proposals will be required to conform to Plans and Specifications on file at the Office of the Bakerton Water Company, 421 Chestnut St., Philadelphia; at the Office of the Sterling Coal Company, in Bakerton (Elmora P. O.), Cambria County, Penn.; or at the Office of E. W. Hess, Engineer, in Clearfield, Penn., and must be made on the Bidding Sheet that will be furnished to bidders on request.

Each bidder must deposit with each of his bids, Cash or a certified check, made payable to the Bakerton Water Company" in the amount of Five Hundred Dollars ($500.00) a said guarantee of good faith that he will, if a contract is awarded to him, within ten (10) days thereafter, execute a written contract for the performance of the same. The deposits of other bidders will be returned them.

A bond satisfactory to the Bakerton Water Company, in an amount equal to the amount of the bid, for the faithful performance of the contract, will be required of the bidder to whom either contract is awarded.

Bids must be sealed, and addressed to the "Bakerton Water Company" and marked plainly on the outside of the envelope enclosing them, "Proposal for Water Works Improvements."

The right is reserved to accept any or reject any or all of the bids.

BAKERTON WATER COMPANY.
JOHN M. BRADLEY, Pres.

OFFICIAL PROPOSALS

Bids: April 9.

Road Work

CITY OF PROVIDENCE WATER SUPPLY BOARD

Providence, R. I.

Sealed proposals for building two sections of Earth Road, one (Contract 4) about 1.8 miles in length in the Town of Scituate, R. I., and one (Contract 7) about 3.4 miles in length in the Town of Foster, R. I., as parts of the Road Relocation in connection with the proposed Scituate Reservoir, will be received at the office of the Water Supply Board, City Hall, until 2:30 o'clock P.M. on Wednesday, April 9, 1919, at which time and place they will be publicly opened and read.

The quantities, in cubic yards, of the main items of work are as follows:

	Contract No. 4	Contract No. 7
Earth excavation	12,000	20,000
Rock excavation	2,000	2,000
Borrow	5,000	10,000
Concrete masonry	250	190

Contracts 4 and 7 are located, respectively, about 9 miles and 16 miles westerly from the City of Providence.

Plans and pamphlets containing information for bidders, form of proposal, contract and bond and the specifications may be obtained from the Secretary of the Board, City Hall, or at the office of the Chief Engineer, 661 Westminster St.

By order of the Water Supply Board.
B. THOMAS POTTER, Chairman,
SAMUEL N. GRAMMONT, Secretary,
FRANK E. WINSOR, Chief Engineer.

PRELIMINARY NOTICE

Plans and specifications for the construction of other earth roads in connection with the proposed Scituate Reservoir, and for the construction during 1919 of portions of the main dam of the Scituate Reservoir are in preparation, and contracts for this work will probably be advertised during April.

Plans and specifications for the main dam and dike of the Scituate Reservoir are also in preparation and this work will, it is expected, be advertised during the late summer or early fall, if conditions then warrant. The main dam and dike will be built mainly of earth and will involve the handling of about 2,500,000 cu.yd.; the work will include gate chambers, masonry spillway, spillway channel, a reinforced concrete bridge, and other appurtenant structures.

Preliminary information may be obtained by interested contractors at the office of the Chief Engineer, 661 Westminster St., Providence, R. I.

Bids: April 1.

Concrete Bridge

Fort Dodge, Iowa.

Sealed bids will be received until 9:30 A.M., April 1, 1919, at the office of the City Clerk, for the construction of a reinforced concrete bridge across Des Moines River, in the City of Fort Dodge, Iowa. Estimated quantities, 2100 cu.yd. concrete, 60 tons reinforcing steel. Plans and specifications may be received from the City Engineer upon a deposit of $25, which will be refunded upon return of plans within 30 days in good condition. Certified check, 10 per cent.

C. H. REYNOLDS, City Engineer.